PATENT

PATENT APPLICATION

Genetic Analysis Systems and Methods

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New Utility Patent Application

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Genetic Analysis Systems and Methods

BACKGROUND OF THE INVENTION

The DNA that makes up human chromosomes provides the instructions that direct the production of all proteins in the body. These proteins carry out the vital functions of life. Variations in DNA often produce variations in the proteins, thus affecting the function of cells. Although environment often plays a significant role, variations or mutations in DNA are directly related to almost all human diseases, including infectious disease, cancer, inherited disorders, and autoimmune disorders. Moreover, knowledge of human genetics has led to the realization that many diseases result from either complex interactions of several genes or from any number of mutations within one gene. For example, Type I and II diabetes have been linked to multiple genes, each with its own pattern of mutations. In contrast, cystic fibrosis can be caused by any one of over 300 different mutations in a single gene.

Additionally, knowledge of human genetics has led to a limited understanding of differences between individuals when it comes to drug response—the field of pharmacogenetics. Since the first correlation over half a century ago of adverse drug responses with amino acid variations in two drug-metabolizing enzymes, plasma cholinesterase and glucose-6-phosphate dehydrogenase, careful genetic analyses have linked sequence polymorphisms in over 35 drug metabolism enzymes, 25 drug targets and 5 drug transporters with compromised levels of drug efficacy or safety. In the clinic, such information is being used to prevent drug toxicities; for example, patients are often screened for genetic differences in the thiopurine methyltransferase gene that cause decreased metabolism of 6-mercaptopurine or azathiopurine. Yet only a small percentage of observed drug toxicities have been explained adequately by the set of pharmacogenetic markers validated to date. In addition, insufficient therapeutic efficacy or unanticipated side effects in "outlier" individuals when administered drugs previously demonstrated to be both safe and efficacious in clinical trials is a tremendous problem for health care practitioners and presents a significant dilemma to the pharmaceutical industry.

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Disease-related and pharmacogenetic gene validation relies on elements of population and quantitative genetics and robust statistical metrics; however, the first step normally relies upon identification of a candidate target gene. To date, various biotechnological methods have been employed to identify candidate genes. For example, differential gene expression has been employed, essentially looking for differences in gene expression between affected and unaffected individuals or between treated and untreated individuals. In addition, protein-protein interaction maps to identify drug receptors and their immediate effectors have been used. Another approach involves mining human sequence databases for sequences similar to accepted disease-related or pharmacokinetic or pharmacodynamic regulators.

Because any two humans are 99.9% similar in their genetic makeup, most of the sequence of the DNA of their genomes is identical. However, there are variations in DNA sequence between individuals. For example, there are deletions of many-base stretches of DNA, insertion of stretches of DNA, variations in the number of repetitive DNA elements in noncoding regions, and changes in single nitrogenous base positions in the genome called "single nucleotide polymorphisms" or "SNPs". It is estimated that there are 3 to 4 million common SNPs that occur in at least 10 percent of people. These common SNPs do not occur independently but are passed from generation to generation in variable-length blocks of multiple SNPs, forming patterns across the genome. Such blocks of SNPs are called SNP haplotype blocks herein.

The candidate gene identification strategy most relevant to SNPs is whole-genome association on various populations of individuals—that is, scanning the entire genomes of populations of individuals to correlate SNPs to disease or drug response. Such whole-genome analyses would provide a fine degree of genetic mapping and pinpoint specific regions of linkage. Methods have been proposed and are used in connection with whole genome analysis. For example, the methods described in U.S. Ser. No. 60/327,006, filed October 5, 2001, "Identifying Human SNP Haplotypes, Informative SNPs and Uses Thereof," assigned to the assignee of the present invention (Attorney docket no. 054801-5001-P2; 1005-P3, incorporated herein by reference for all purposes) have been proposed

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for use in such applications. U.S. Ser. No. unassigned, filed September 18, 2001, "Human Genomic Polymorphisms", assigned to the assignee of the present invention (Attorney Docket no. 10108319/1013P-1) incorporated herein by reference for all purposes, provides the identity of SNPs and SNP haplotype blocks across one representative chromosome, ie. Chromosome 21.

While meeting with success, it is desirable to increase the speed and efficiency at which such analyses can be performed, as well as to decrease the cost of performing such analyses.

SUMMARY OF THE INVENTION

Improved methods, devices, and systems for performing genetic analysis are provided. According to one embodiment of the invention a method is provided in which genetic DNA or derivatives therefrom is scanned from a plurality of individuals. The scanning uses, for example, a gel based sequencer or high density array to identify genetic polymorphisms in a plurality of individuals. For the polymorphisms that occur in a plurality of individuals, but not all of the scanned bases, genetic DNA or derivatives therefrom from additional individuals is evaluated to identify which of the variants occur in the additional individuals. Based the results of scanning the additional individuals, the method provides for the identification of blocks of the polymorphisms that tend to be inherited together. The blocks of polymorphisms can then be used in a wide variety of applications such as drug target identification, identification of diagnostics, clinical trial evaluation, pharmacogenomics, and other applications.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Throughout the disclosure various patents, patent applications and publications are referenced. Unless otherwise indicated, each is incorporated by reference in its entirety for all purposes.

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U.S. Ser. No. 60/327,006, filed October 5, 2001, "Identifying Human SNP Haplotypes, Informative SNPs and Use Thereof," assigned to the assignee of the present invention (Attorney docket no. 054801-5001-P2) incorporated herein by reference for all purposes, describes methods for identifying single nucleotide polymorphisms, assigning such polymorphisms to groups, and using such groups in the drug discovery process. Fig. 1 provides an overall diagram illustrating such processes. In Fig. 1, variant locations in a genome, such as the human genome, are identified in step 110. The processes used in step 110 can include, for example, scanning genomic regions for variants using DNA/RNA arrays such as those available from Affymetrix, Inc. (such as discussed in general in U.S. Pat. No. 5,861,242, incorporated herein by reference for all purposes), the use of conventional gel sequencing techniques such as those based on gel sequencers available from Applied Biosystems, Inc., capillary sequencing techniques, or other techniques. Preferably, only common SNPs, such as those that occur in more than 10% of the population in question, are used in the analysis since, for example, these SNPs will represent evolutionarily older variants and, therefore, tend to correlate with more common diseases/states in a larger fraction of the population.

In preferred embodiments, the genomic DNA (or a derivative therefrom, such as PCR DNAs or RNA amplicons or the like) is scanned for variants using a high density DNA array. Using one technology, an array of probes is formed on a high density array. The array of probes includes a) probes that are complementary to portions of a baseline sequence of the genetic DNA (such as that obtained from a first pass sequencing effort) and b) one or more probes that are complementary to variants of the baseline sequence of the genetic DNA. The genetic DNA, or a derivative thereof, is then labeled and hybridized to the array and scanned. Based on the locations where hybridization is detected one can detect whether the bases in the genetic DNA are "wild type" or variant. In the cases where the particular base is the same as the reference sequence, the labeled material will hybridize more strongly to the wild type probe. In those cases where the DNA sequence varies from the reference sequence, the labeled material will hybridize

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more strongly to one of the variant probes. Based on this information, one can call a particular base as being the same or variant from the reference sequence.

In preferred embodiments, more than 10,000 bases are scanned for variants. In more preferred embodiments, more than 1x10⁶ bases are scanned for variants, more preferably more than 2x10⁶ bases, more preferably 1x10⁷, and more preferably more than 1x10⁸, and more preferably more than 1x10⁹ bases are scanned for variants. In preferred embodiments at least introns are scanned for variants, and in more preferred embodiments both introns and exons are scanned for variants. In preferred embodiments the scanned nucleic acids are genomic DNA. In most preferred embodiments, such DNA is from a mammalian organism such as a human. In preferred embodiments, more than 10% of the genomic DNA from the organism is scanned, in more preferred embodiments more than 25% of the genomic DNA from the organism is scanned, in more preferred embodiments, more than 50% of the genomic DNA from the organism is scanned, and in most preferred embodiments, more than 50% of the genomic DNA from the organism is scanned.

In step 120 the variants are assigned to groups. Such groups of variants are blocks of variants (in most cases, single nucleotide polymorphisms or "SNPs") that tend to be inherited together. Such "blocks" or "SNP variant haplotype blocks" have likely arisen from an evolutionary point of view because the edges of blocks will tend to be the boundaries of ancient recombination events in the species. In step 130, representative variants from each block are used in an association study to identify associations of such blocks to a phenotype. Such association studies may be run using a variety of technologies such as a) Affymetrix genotyping arrays, b) "Invader" assays available from Third Wave, such as described in Agarwal, P. et al. "Comparison study for identifying promoter allelic polymorphism in interleukin 10 and tumor necrosis factor alpha genes", Diagn Mol Pathol 9, 158-64(2000); Cooksey, R.C., Holloway, B.P., Oldenburg, M.C., Listenbee, S. & Miller, C.W. "Evaluation of the Invader assay, a linear signal amplification method, for identification of mutations associated with resistance to rifampin and isoniazid in Mycobacterium tuberculosis" Antimicrob Agents Chemother 44, 1296-301 (2000); and Mein, C.A. et al. "Evaluation of single nucleotide polymorphism

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typing with Invader on PCR amplicons and its automation" *Genome Res* 10, 330-43 (2000), all incorporated herein by reference, or c) "Taqman" assays, such as described in Arnold, B.A., Hepler, R.W., and Keller, P.M. "One-Step Fluorescent Probe Product-Enhanced Reverse Transcriptase Assay" *BioTechniques* 25(1):98-106, 1998; Becker K., D. Pan and C.B. Whitley. 1999. Real-time quantitative polymerase chain reaction to assess gene transfer. Hum. Gene Ther. *10*:2559-2566, 1999; Berg, T., Miller, A.R., Platz, K.P., Hohne, M., Bechstein, W.O., Hopf, U., Wiedenmann, B., Neuhaus, P., and Schreier, E. "Dynamics of GB virus C viremia early after orthotopic liver transplantation indicates extrahepatic tissues as the predominant site of GB virus C replication" *Hepatology* 29(1):245-249, 1999; or a variety of other technologies. When array based technologies are used, as an example, one makes arrays similar to those described above, except that only the variant positions are "tiled" onto the array.

Once it has been determined which regions of the genome are associated with, for example, a disease state, drug screening assays are run to identify one or more molecules that mediate the relevant portions of the genome in step 140 to identify therapeutics 150. In addition, the associations themselves may be used directly in genetic diagnostic assays, immunoassays or other diagnostic tests in step 160. In alternative embodiments the variant regions are used in studies to evaluate drug response such as in pharmacogenomic studies. The results are then used to stratify patents according to drug response. The stratification may, in some embodiments, be used to stratify individuals that may exhibit a toxic response from those that will not. In other cases, the stratification may separate those that will be non-responders from those who will be responders.

Fig. 2 provides one illustration of showing how variants, usually SNPs, occur in groups or blocks in a genome. Such SNP haplotype blocks are chromosomal regions that tend to be inherited as a unit, with a relatively small number of common forms. Each line in Fig. 2 represents portions of the haploid genome sequence of different individuals. As shown therein, individual W has an "A" at position 241, a "G" at position 242, and an "A" at position 243. Individual X has the same bases at positions 241, 242, and 243. Conversely, individual Y has a T at positions 241 and 243, but an A at position 242.

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Individual Z has the same bases as individual Y at positions 241, 242, and 243. The variants will most commonly be biallelic, ie. occur in only one of 2 forms, not all four possibilities. Variants in block 261 will tend to occur together. Similarly, the variants in blocks 262 and 263 will tend to occur together. Of course, only a few bases in a genome are shown in Fig. 2. In fact, most bases will be like those at position 245 and 248, and will not vary from individual to individual.

This tendency of SNPs to occur together in SNP haplotype blocks allows for a single or a few SNPs in a block to be used in an association study, rather than all of the SNPs in that block. For example, by evaluating only the SNP at position 241, the SNPs at positions 242 and 243 can be predicted without performing an assay to identify SNPs 242 and 243. If position 241 contains an A, position 242 will contain a G and position 243 will contain an A. Conversely, if position 241 contains a T, positions 242 and 243 respectively will contain an A and a T respectively. Similarly, a SNP in block 262 can be used to predict the other SNPs in block 262. For example, if SNP 244 is a T, it will be known that position 246 is a C, and position 247 is a C. Conversely, if position 244 is a C, position 246 is an A, and position 247 is a C.

According to the invention herein, all or substantially all of the bases in a genomic region are scanned for common SNPs in a first, limited, sample set. Then, using substantially only those SNPs identified in the first scanning step, additional individuals are genotyped at those SNP locations that are identified from a full scan of the genomic region of interest. The first sample set is sufficiently large that the full scan of genomic DNA identifies a sufficient number of SNPs with a sufficiently high level of confidence, but is not large enough to necessarily identify all of the block boundaries to a necessary level of confidence for the particular experiment. The second sample set is of a sufficient size that it will allow definition of block boundaries with a sufficient level of confidence for the experiment.

Fig. 3 illustrates the process in greater detail. As shown, at step 310 a subset of "n" genomic DNAs are scanned across all or a portion such genomes at every base location for common SNPs or variants. Thereafter, using genotyping technologies such

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as those described above, only those variant locations identified in step 310 are used to genotype an additional "m" individuals. Using the genotypes accumulated from steps 310 and 320, variant blocks are assigned. Using the invention herein, the cost and burden of performing genetic analysis, especially whole genome analysis, is significantly reduced since, for a fraction of the population analyzed, only a fraction of the bases of the genomic DNA of interest needs to be evaluated in assigning variants to respective blocks.

In preferred embodiments, copies of more than 10 different monoploid genomic DNAs are scanned for variants at step 310 to be used in the further genotyping analysis (i.e. "n" is 10 or more). In more preferred embodiments more than 15 different copies of the genomic DNA are scanned for variants to be used in the further genotyping analysis (i.e. "n" is 15 or more). In more preferred embodiments more than 18 copies of the genomic DNA are scanned for variants to be used in the further genotyping analysis (i.e. "n" is 18 or more). In more preferred embodiments more than 20 genomic DNAs are scanned for variants to be used in the further genotyping analysis (i.e. "n" is 20 or more). In more preferred embodiments more than 25 copies of the genomic DNA are scanned for variants to be used in the further genotyping analysis (i.e. "n" is 25 or more).

In preferred embodiments, the full scanning of genomic DNA is followed up by genotyping at step 320 of additional samples to evaluate representative SNPs discovered in the full scans. In preferred embodiments, the genotyping step 320 analyzes more than 10 different monoploid genomic DNAs (ie. "m" is 10 or more). In more preferred embodiments, the genotyping step 320 analyzes more than 15 different genomic DNAs. In more preferred embodiments, the genotyping step 320 analyzes more than 20 different genomic DNAs. In more preferred embodiments, the genotyping step 320 analyzes more than 25 different genomic DNAs. In more preferred embodiments, the genotyping step 320 analyzes more than 30 different genomic DNAs.

Fig. 4 illustrates the outcome of the process of Fig. 3 in a hypothetical situation. The top portion of Fig. 4 illustrates the sequence of a hypothetical stretch of DNA, with the variant positions indicated and variant block boundaries drawn. Of course, the top portion of Fig. 4 illustrates the stretch of genomic DNA with mutations marked and the

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block boundaries drawn, although this information would not be known ab initio. Sequencing results 410 show the results of sequencing haploid DNA of 3 individuals. As shown, in general it is possible to have identified a large fraction of the common SNPs after a relatively small number of individuals have been sequenced. In the case in Fig. 4, the SNPs at each location shown in the top portion of Fig. 4 have been identified, as indicated by check marks. However, if further individuals are not evaluated, the block boundaries would not be correctly identified at this stage. For example, while one could at this stage draw block boundaries between blocks 420 and 430 (note that the first $C \rightarrow G$ variant predicts the first $G \rightarrow A$ variant, and the first $C \rightarrow T$ variant predicts the second $C \rightarrow T$ variant), it is not possible to distinguish between the blocks 430 and 440 at this stage. At this stage it appears that the first $C \rightarrow T$ variant would predict the first and second $T \rightarrow A$ variants. Accordingly, a more statistically significant sample set is required to draw the block boundaries. However, since relevant SNPs have been identified, it is now possible to genotype only the variant positions to complete the process of identifying block boundaries without sequencing the entire stretch of genomic DNA.

The results of performing a genotyping process on only the SNPs in another hypothetical genomic sample are shown in Fig. 4 at 420. As shown, by performing this additional genotyping step, it is now possible to see that blocks 430 and 440 are distinguishable. Specifically, it is now possible to see that the first $C \rightarrow T$ variant does not track with the first and second $T \rightarrow A$ variants, but instead, the first $C \rightarrow T$ variant can be used to predict only the second $C \rightarrow T$ variant and the first $T \rightarrow A$ variant can be used only to predict the second $T \rightarrow A$ variant.

Without wishing to be bound by any particular theory of operation, it is believed that the basis on which the assays may be successfully utilized in this manner is found in the fact that a few individuals may be used to find the most common SNPs. The most common haplotypes account for most individuals, but less common haplotypes could be mis-ordered in terms of frequency of occurrence if a larger sample set is not used.

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Example(s)

Using Affymetrix whole wafers, a region of genomic DNA from chromosome 21 was scanned for polymorphic regions, generally using the methods of U.S. Ser. No. 60/327,006, filed October 5, 2001, "Identifying Human SNP Haplotypes, Informative SNPs and Use Thereof," assigned to the assignee of the present invention (Attorney docket no. 054801-5001-P2; 1005-P3, incorporated herein by reference for all purposes). 19 additional copies of chromosome 21 were then evaluated using the same techniques. "Common" SNPs were evaluated, meaning those that occur with an allele frequency of more than 10% in this particular example. To evaluate whether one may use 19 scans for SNP detection, rather than 38, it was determined how many SNPs would produce an allele frequency of >10% across all 38 scans, but are not considered common polymorphism in a set of just 19 scans. To have an allele frequency of >10% out of 38, a SNP would need to have a frequency of >20% in 19 scans, if it is not polymorphic at all in the other 19 scans. In the analysis performed, 89% of common SNPs were identified by evaluating just 19 scans. SNPs identified in the above analysis are shown in Tables 1, 2, and 3. Table 1 shows the SNPs that would have been found in both of the first and last 19 scans of a 38 scan set. Table 2 shows the SNPs that would have been identified by evaluating the first 19 of the 38 scans of chromosome 21, but would not have been identified by evaluating only the second 19 scans. Table 3 shows the SNPs that would have been identified by evaluating the last 19 of 38 scans of chromosome 21, but would not have been identified by evaluating only the first 19 scans. There are 3170 SNPs identified in both the first and last 19 scans. There are 361 SNPs found in only the first 19 scans, and 516 in only the second 19 scans. Therefore, there are ((0.5))(361+516))/(3170+361+516) or 11% of the SNPs, on average, that would not be found in only half of the number of scans in chromosome 21.

Table 1

		POSIT	ION	REFERENCE_BA	SE	ALTERNATE_BASE
		1: 13780		a		g
	5	2: 13780		C		t
		3: 13780		g		a
		4: 13781		a		g
		5: 13782		t		C
		6: 13782		t		C
	10	7: 13787		t		c
		8: 13788		t		C
		9: 13790		g		a
		10: 13793		C		a
		11: 13793		t		C
1.5	15	12: 13793		t		C
,	15	13: 13793		C		a
		14: 13793		a		g
<u>L</u>		15: 13794		g		c
		16: 13794		t		C
T	20	17: 13794		a		C
The same stands of the same stan	20	18: 13794		g		t
1.1		19: 13795		C		g
		20: 13795		a		g
.I		21: 13796		C		t
₩.	25	22: 13797		a		g
	23	23: 13798		a		t
Stant that the property that the stant that		24: 13798		C		t
		25: 13799		a		t
I		26: 13799		a		g
, proses	30	27: 13799		a		g
L.		28: 13799		g		a
T.		29: 13800		g 3		t
		30: 13800		a		g
		31: 13800		t		c
	35	32: 13803		C		t
		33: 1380		С		g
		34: 13804		C		t
		35: 1380		g		a
		36: 1380	5107	C		t
	40	37: 13809	5416	С		t
		38: 1380	5691	g		a
		39: 1380	6436	t		C
		40: 1380	8142	g		C
		41: 1380	8771	t		C
	45	42: 1380		C		t
		43: 1380		g		a
		44: 1380:		t		g
		45: 1380:	9448	g		a
	~ ^	46: 1380:		С		g
	50	47: 1380:		С		t
		48: 1381		a		g
		49: 1381		g		C
		50: 1381		g		С
	~ ~	51: 1382		a		g
	55	52: 1383		С		a
		53: 1384		g		t
		54: 1384	3560	С		t

55: 13844156 56: 13845008 57: 13850206 58: 13850467 59: 13850793 60: 13851331 61: 13851465 62: 13851482	a g g a g g t g		g c t t c a c a
63: 13851839 64: 13853325 65: 13854406	a t +		t g c
66: 13855468 67: 13857664 68: 13859884 69: 13861361	a a a		а а с с
71: 13862811	а		c t
73: 13864454	g		t
			t t
76: 13870959	a		t
			a a
79: 13872723	a		t
80: 13874188 81: 13875913			a a
82: 13876910	a		g
			a a
85: 13877854	t		C
			t a
88: 13883076	C		t
	t		a a
	a C		t
92: 13884172	g		a g
	a C		t
95: 13885037	C		t t
			t
98: 13889436	t		c
			a a
101: 13891102	a		t
			g a
103: 13891974	t		C
	a		t g
106: 13892423	a C		а
108: 13892533	C		t c
			a
111: 13894132	С		a
112: 13894680	а		g
	56: 13845008 57: 13850206 58: 13850467 59: 13850793 60: 13851331 61: 13851465 62: 13851482 63: 13851482 63: 13851839 64: 13853325 65: 13854406 66: 13855468 67: 13857664 68: 13859884 69: 13861361 70: 13862014 71: 13862014 71: 13862311 72: 13864035 73: 13864454 74: 13865342 75: 13870959 77: 13870981 78: 13872382 79: 13872723 80: 13874188 81: 13875913 82: 13876910 83: 13877368 84: 13877712 85: 13877854 86: 13880011 87: 13880770 88: 13883341 90: 13883719 92: 13883341 90: 13883719 92: 13884476 95: 13887070 88: 13883076 89: 13883076 89: 13883071 101: 1389102 102: 13891894 103: 13891974 104: 13892019 105: 13892406 106: 13892423 107: 13892460 108: 13892533 109: 13892640 110: 13894072	56: 13845008	56: 13845008

	5	113: 114: 115: 116: 117: 118: 119: 120: 121: 122:	13895433 13901024 13902432 13903639 13904140 13905359 13906874 13908702 13923816 13924410	g	арранрррс
	15	123: 124: 125: 126:	13928582 13929428 13932906 13934231	g g a	a a a C
The first that the fi	20	127: 128: 129: 130: 131: 132: 133:	13934282 13934468 13934480 13934691 13936168 13939719 13945313	ttattgg	0000010
	25	134: 135: 136: 137: 138:	13945619 13946328 13948558 13957861 13957897	g t t t t a .	0 0 0
	30	139: 140: 141: 142: 143:	13961188 13961398 13963166 13963226 13964526	t a t a t	c c a g g
	35	144: 145: 146: 147: 148:	13965988 13967031 13967361 13968052 13968186	а а с а	а а с
	40	149: 150: 151: 152: 153:	13968704 13968772 13969447 13969802 13969816	t g c t t	g a g g a
	45	154: 155: 156: 157: 158:	13969885 13969965 13970342 13971387 13971823	g a t c	a c c a t
	50	159: 160: 161: 162: 163: 164:	13983563 13985003 13985280 13985454 13985887 13986661	g a t g a t	a g g a c c
	55	165: 166: 167: 168: 169:	13987607 13988282 13989518 13989987 13991021	a c t c c a	g t c t a g

		171:	13991288	a	g
		172:	13992670	t	С
		173:	13992705	C	t
	5	174:	13994022	C	t
	3	175:	13996917 13997836	t ~	C
		176: 177:	13998686	g	C
		177:	13998835	t ~	a
		179:	13999356	g t	a a
	10	180:	14018678	a	C
	10	181:	14018887	t	g
		182:	14019896	C	t
		183:	14024121	g	a
		184:	14024187	a	t
	15	185:	14024852	C	g
		186:	14024923	a	t
		187:	14028090	g	а
		188:	14028399	С	t
in i		189:	14028430	g	а
77	20	190:	14029873	g	а
===== === 1		191:	14031210	g	t
ı		192:	14032972	C	t
ũ	25	193:	14033384	t	a
ļ.	25	194:	14034385	g	a
ij.		195:	14038441 14038480	g	C
E		196: 197:	14038480	a t	g
		198:	14040439	C	C
	30	199:	14040439	g	g a
hend i	50	200:	14041428	C	t
Enter I		201:	14041932	a	g
211		202:	14043266	c	t
		203:	14044634	a	g
1	35	204:	14045104	a	g
		205:	14045200	a	g
		206:	14048027	С	t
		207:	14048350	С	t
	10	208:	14049343	g	а
	40	209:	14050138	g	a
		210: 211:	14050258 14051897	g	a
		211:	14051897	C	t +
		213:	14053863	c a	t
	45	214:	14055606	g	g t
		215:	14055656	a	g
		216:	14056221	a	g
		217:	14056375	g	a
		218:	14056470	Ċ	t
	50	219:	14057430	t	C
		220:	14059144	С	t
		221:	14060584	t	C
		222:	14060804	g	С
	<i></i>	223:	14061225	C	t
	55	224:	14064737	t	a
		225:	14067569	a	g
		226:	14068069	a	t
		227:	14068127	t	g
		228:	14069638	t	С

	229: 14070973	t	C
	230: 14072067	a ~	t a
	231: 14078398 232: 14079489	g c	t
5	232: 14079489 233: 14080941	a	c
5	234: 14082287	g	a
	235: 14082513	a	g
	236: 14083192	t	g
	237: 14083520	t	C
10	238: 14087424	t	a
	239: 14087441	g	a a
**	240: 14088548 241: 14091100	c g	g
	242: 14092256	C	t
15	243: 14093151	C	g
1.0	244: 14094373	t	C
a -	245: 14096443	g	t
	246: 14097696	g	a
□ □ 20	247: 14098656	a	C
□ 20	248: 14101014	g ~	t a
	249: 14102964 250: 14105489	g a	g
IJ	250: 14105489 251: 14105717	c	t
j	252: 14106349	t	g
= 25	253: 14106571	t	C
j	254: 14106827	g	а
30			
	255: 14106974	t	C
20	256: 14108664	C	t
30	257: 14108889 258: 14109194	C	g t
~_[259: 14109540	a	g
	260: 14109875	a	g
	261: 14109953	t	С
35	262: 14109982	t	C
	263: 14110042	С	t
	264: 14110270	C	t c
	265: 14110383 266: 14110462	t c	t
40	266: 14110462 267: 14110527	C	ā
+0	268: 14112293	t	g
	269: 14112571	С	t
	270: 14114928	C	t
	271: 14115291	а	g
45	272: 14116560	g	a
	273: 14117021	a	g C
	274: 14117699 275: 14117814	g a	g
	276: 14118003	a	g
50	277: 14118769	t	C
	278: 14121320	a	g
	279: 14121579	t	С
	280: 14121866	t	g
سر سر	281: 14122772	t	C
55	282: 14122865	a	g g
	283: 14124291 284: 14124472	a C	t
	284: 14124472	g	c
	286: 14125680	t	С
		-	

	287: 14129043	a	g
	288: 14129176	С	g
	289: 14130516	g	a C
5	290: 14130838 291: 14131390	t a	C
3	291: 14131390 292: 14131972	C	t
	293: 14132126	t	С
	294: 14132401	a	g
	295: 14134814	t	С
10	296: 14135469	a	g
	297: 14136092	a	C
	298: 14136237 299: 14136296	a C	g t
	299: 14136296 300: 14136795	t	C
. 15	301: 14136889	a	g
1. 13	302: 14137167	С	t
	303: 14137397	a	g
	304: 14137990	g	a
<u> </u>	305: 14138306	ā	a C
글 20	306: 14140410 307: 14140637	t g	a
드 드 20 도 다	307: 14140037	a a	g
	309: 14140940	C	t
	310: 14142190	С	t
25	311: 14143299	g	a
Transport	312: 14148398	t	c t
77	313: 14148765 314: 14149402	a	C
	314: 14149402	g t	c
30	316: 14150844	c	t
] 	317: 14151614	t	C
~12 ###	318: 14151757	t	a
toj Si i			_
)	319: 14152283 320: 14152410	c c	a a
35	320: 14152410 321: 14152443	a	g
,	322: 14152519	a	ğ
	323: 14153887	t	g
	324: 14154251	g	t
40	325: 14154271	a	g
	326: 14154689 327: 14154783	a t	g
	327: 14154783 328: 14154976	a	t
	329: 14155259	C	t
45	330: 14155374	C	t
	331: 14155524	С	g
	332: 14155638	g	a t
	333: 14156729 334: 14157020	c g	a
50	335: 14157103	a	g
50	336: 14158286	t	C
	337: 14162213	g	C
	338: 14164467	С	t
<i></i>	339: 14166866	a ~	C
55	340: 14167915 341: 14170156	g	a a
	341: 14170156 342: 14173042	g a	g
	343: 14173477	c	ŧ
	344: 14174757	t	С

		345:	14176517	C	t
		346:	14176757	c t	C
		347:	14176972	g	a
		348:	14177117	g	а
	5	349:	14181577	g	а
		350:	14182229	С	t
		351:	14182354	g	t
		352: 353:	14184334 14184808	g	a a
	10	354:	14185989	g t	C
	10	355:	14186027	a	g
		356:	14188115	a	g
		357:	14190855	t	g
	15	358:	14192479	a	g
	13	359: 360:	14193521 14194389	t g	c a
2 1		361:	14198173	C	g
m		362:	14201219	a	g
<u></u>		363:	14202630	t	С
Ent Ent	20	364:	14203012	t	С
		365:	14203271	a	g t
m		366: 367:	14203553 14203777	c a	C
Li		368:	14203951	g	a
	25	369:	14204809	g	a
		370:	14207361	С	t
= ====		371:	14207605	g	a +
		372: 373:	14207771 14207834	c a	t g
;	30	374:	14207034	a	t
		375:	14208359	t	С
Ŧ		376:	14208434	C	t
94 74 1		377:	14208530	t	C
: L.	35	378: 379:	14208685 14208750	c t	t a
	33	380:	14208793	C	t
		381:	14209006	c	t
		382:	14209020	а	t
	40	383:	14209282	С	t
	40	384:	14209654	t	C
		385:		t	С
		386:	14210273	a	C
	4.5	387:	14211548	С	t
	45	388:	14212470	g	a
		389: 390:	14214548 14214851	g t	C
		391:	14217859	g	a
		392:	14218529	ā	g
	50	393:	14218614	a	t
		394:	14221089	a	g
		395: 396:	14221164 14221292	a ~	g a
		397:	14221232	g a	g
	55	398:	14221732	C	t
	- -	399:	14224920	g	a
		400:		g	С
		401:		C	t
		402:	14230681	a	С

	403: 14232644	t	a
	404: 14233411	C	a
	405: 14234037	t	С
	406: 14234266	g	a
5	407: 14235264	C	a
5	408: 14235204	C	t
	409: 14235402		a
	410: 14235813	g	t
	411: 14236459	C	
10		a	g
10		g	a
		a	C
	414: 14236958	g	t
	415: 14237106	C	t
15	416: 14237734	a	g
13	417: 14238131	g	a
	418: 14238784	g	a
<u></u>	419: 14238979	a	t
1	420: 14239101	C	t
□ 20	421: 14239346	t	C
= 20	422: 14239458	g	a
트 드 20 두	423: 14239594	a	g
	424: 14239790	t	g
	425: 14239876	t	C
1	426: 14240218	C	t
ط ²⁵	427: 14240377	t	a
in i	428: 14240473	a	g
5 5 5 7 7	429: 14241088	a	g
2 	430: 14241702	а	g
 	431: 14241849	g	a
<u> </u>	432: 14242333	С	t
-1	433: 14243007	а	t
,	434: 14243211	g	C
	435: 14248044	а	С
	436: 14249184	С	g
35	437: 14251286	g	C
	438: 14255172	g	a
	439: 14255802	С	a
	440: 14258178	С	t
40	441: 14259060	g	a
40	442: 14259161	C	t
	443: 14265514	a	g
	444: 14266004	g	C
	445: 14266784	a	g
45	446: 14270911	С	t
45	447: 14271868	+	~
	448: 14273519	t	c t
	449: 14275793	a	
	450: 14275916	C	a a
50	451: 14276093	g t	C
50	451: 14276093		
		a	g
	453: 14276528 454: 14276897	g	a
		g	a
55	455: 14276972	t	C
23	456: 14278155	a	g
	457: 14278615	a ~	g
	458: 14278692	g	a
	459: 14279892 460: 14280148	g	a
	400: T4700T49	g	a

	461: 14280291	2	ď
		a	g
	462: 14280782	С	t
	463: 14281042	а	С
_	464: 14283354	t	С
5	465: 14290678	t	C
	466: 14290844	a	g
	467: 14295679	С	t
	468: 14297092	g	a
	469: 14300848	t	C
10	470: 143033184		
10		t	C
	471: 14303913	a	g
	472: 14303970	g	а
	473: 14304669	C	g
	474: 14305073	t	С
15	475: 14305360	t	С
	476: 14307893	t	С
<u> </u>	477: 14308069	С	t
	478: 14308329	а	С
	479: 14308625	t	C
□ 20	480: 14309321	g	a
<u> </u>	481: 14309465		
		g	C
) 	482: 14310218	g	a
	483: 14310672	t	С
	484: 14311035	а	g
25	485: 14311228	t	С
The same	486: 14311491	g	a
≅ `	487: 14311865	C	t
5 5 5 5 5 5 5 7 7	488: 14312093	а	t
ē.i.	489: 14312165	g	t
30	490: 14312256	a	g
	491: 14312275	t	C
14	492: 14312321		t
, s ee	493: 14312797	a	
72 I		ā	a
	494: 14313371	t	C
. 35	495: 14313671	С	t
	496: 14313711	g	a
	497: 14315626	С	t
	498: 14317417	g	a
	499: 14317572	t	С
40	500: 14317812	C	g
	501: 14318978	t	а
	502: 14319024	a	g
	503: 14319433	g	a
	504: 14319634	g	a
45	505: 14319797	C	g
13	506: 14320165		
		a	g
	507: 14320692	С	a
	508: 14320813	C	t
~ 0	509: 14320844	t	g
50	510: 14321619	а	g
	511: 14322052	а	g
	512: 14322154	а	g
	513: 14322220	a	g
55	514: 14323488	C	t
	515: 14323680	c	t
	516: 14323863	C	a
	517: 14323972	t	C
	518: 14324040	а	t

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		519: 520:	14325197 14325540	a a	a a
		521:	14323540	t	C
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	5	523:	14338523	a	c
	J	524:	14339636	g	С
		525:	14340427	C	t
		526:	14348472	g	a
		527:	14350385	c	t
	10	528:	14350727	g	a
		529:	14351732	ť	g
		530:	14351887	g	a
		531:	14352733	С	t
		532:	14353465	а	g
	15	533:	14353545	t	С
		534:	14354282	t	а
<u>ļ</u> ā		535:	14354993	t	C
		536:	14355347	C	t
\bar{z}	20	537:	14355495	C ~	a
Ξ	20	538: 539:	14356310 14357040	g	a
		540:	14357331	a g	g a
		541:	14357331	g	a
		542:	14363514	g	a
	25	543:	14367075	c	t
Q.		544:	14368787	g	t
		545:	14373239	t	C
		546:	14373986	t	g
ļ.		547:	14375753	t	С
	30	548:	14375760	g	a
-1		549:	14375831	a	С
		550:	14376454	C	g
		551: 552:	14376567 14376808	ā	a
=	35	553:	14377209	t	a a
	55	554:	14377288	a a	a
		555:	14377353	g	t
		556:	14378276	g	a
		557:	14378370	C	t
	40	558:	14379197	a	g
		559:	14395036	a	C
		560:	14395259	g	a
		561:	14395598	a	ā
	45	562:	14395625	C	t ~
	43	563: 564:	14395690 14395722	t t	g
		565:	14395722	g	c
		566:	14395870	t	C
		567:	14395902	a	t
	50	568:	14395954	g	a
		569:	14396424	g	a
		570:	14397242	t	C
		571:	14397529	C	t
		572:	14398288	t	g
	55	573:		g	C
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		579: 14401434	a a	C
		580: 14401454	g	a
	5	581: 14402273	C	а
		582: 14402935	t	С
		583: 14403897	g	С
		584: 14405247	С	a t
	10	585: 14405732 586: 14407060	C a	t
	10	587: 14407160	t	C
		588: 14412731	g	a
		589: 14413737	C	а
		590: 14414482	С	t
	15	591: 14414726	g	a
		592: 14417171 593: 14417396	t c	c a
		593: 14417396 594: 14417433	g	t
		595: 14417477	C	t
	20	596: 14418160	C	t
		597: 14419575	t	С
IJ		598: 14420742	t	С
ű		599: 14421092	a	g
Ļi	25	600: 14421138 601: 14422812	t a	g t
ű	43	602: 14424569	g	a
		603: 14424712	ť	g
		604: 14427528	g	a
<u></u>	••	605: 14434249	a	g
	30	606: 14434697	g	a
- L		607: 14437186 608: 14437221	t t	c g
The first train of the first tra		609: 14438332	t	C
TL		610: 14438364	t	g
	35	611: 14438686	t	С
		612: 14438954	g	а
		613: 14439018	t	C
		614: 14439260 615: 14440001	t c	c t
	40	616: 14443243	C	t
		617: 14446477	C	t
		618: 14447783	g	а
		619: 14447829	t	a
	15	620: 14448561	C	g
	45	621: 14449993 622: 14453820	c a	a g
		623: 14455156	c	t
		624: 14458430	g	а
		625: 14462774	a	С
	50	626: 14464432	g	С
		627: 14465972	t	C C
		628: 14466544 629: 14466865	a a	g
		629: 14466865 630: 14477623	a g	t
	55	631: 14479073	t	a
		632: 14479413	a	g
		633: 14483845	С	t
		634: 14484193	t	C
		635: 14485018	t	С

		636: 637: 638:	14500633 14501053 14501214	a a g	g g t
	5	639: 640: 641:	14505546 14507257 14507719	C C a	t g
	10	642: 643: 644: 645: 646:	14507822 14508413 14508697 14509951 14511271	с а g с	g t a t t
= 1	15	647: 648: 649: 650:	14512196 14513266 14514848 14516734 14517397	g t c c	a c t t t
	20	652: 653: 654: 655:	14517691 14519222 14519896 14525005 14528986	а с с а т с с	c t t c c
	25	657: 658: 659: 660: 661:	14529523 14530483 14531846 14532854 14534505	g t c g c	С с а а
	30	662: 663: 664: 665:	14535097 14539337 14540886 14542312	g g t	a c a c c
	35	667: 668: 669: 670:	14546904 14546926 14549011 14556845	g t g	c a a t
	40	671: 672: 673: 674: 675:	14560480 14561574 14573065 14574488	a a c a a t	g g t c g a
	45	677: 678: 679: 680:	14581074 14586576 14588231 14588677	g c g a a	a g t t
	50	682 : 683 : 684 : 685 :	: 14594493 : 14598453 : 14600129 : 14601491	3 0 0 0	t g t c a
	55	687 688 689 690 691	: 14603668 : 14609395 : 14610858 : 14615168	et t g t a	a c a c g
		692 693	: 14616327	g g	a a

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		694:	14618604	g	a
		695:	14618892	С	t
		696:	14619088	g	a
	5	697:	14621021 14621080	t	C
	3	698:	14621080	a	g a
		699: 700:	14621396	C	a
		701:	14627326	g t	c
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	10	102.	1402/450	C	Ŭ
	10	703:	14627573	g	a
		704:	14627856	C	t
		705:	14628410	a	C
		706:	14628606	t	С
	15	707:	14628943	g	t
. 8		708:	14630897	ā	g
		709:	14631416	С	a
شيا		710:	14631564	t	C
- -		711:	14631874	C	g
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ائستا دور		713:	14633168	g	t
		714:	14633809	t	С
IJ		715:	14635240	t	g
Ū		716:	14637360	а	g
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taaf Le	20	721:	14639083	g	a t
	30	722:	14639418 14639424	c t	a
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		726:	14640930	a	c
IJ	35	727:	14640953	a	g
		728:	14641901	a	g
		729:	14641976	g	a
		730:	14642051	C	t
		731:	14642174	g	а
	40	732:		t	а
		733:	14642286	a	g
		734:		t	C
		735:	14642614	С	t
	4.5	736:		a	C
	45	737:		C	t ~
		738:		C	g
		739:		C	t
		740: 741:		C	a a
	50	742:		g g	t
	50	743:		C	g
		744:		c	t
		745:		g	a
		746:		C	t
	55	747:		g	a
		748:		ť	С
		749:		g	а
		750:		ā	g
		751:	14649532	а	С

767: 14652452 t 768: 14652474 c 769: 14652694 g 770: 14653708 t 771: 14654235 a 772: 14661002 a 773: 14662594 g 774: 14663947 a 25 775: 14664293 t 776: 14667946 a 777: 14668382 c 778: 14677931 g 779: 14677931 g 780: 14683707 a 782: 14683953 g 781: 14683707 a 782: 14683953 g 783: 14685321 t 784: 14685566 g 35 785: 14685682 g 786: 14685868 a 787: 14686114 a 788: 14686751 c 40 790: 14686751 c 40 790: 14686751 c 40 790: 14686751 c 791: 14687010 g 792: 14687213 a 793: 14689122 t 794: 14689122 t 794: 14689122 t 794: 14689887 a 45 795: 14690010 g 796: 14690010 g 797: 14690707 t 798: 14690010 g 799: 14694039 t 50 800: 14694137 t 801: 14694226 a 802: 14695601 a 803: 14697625 t 55 805: 14698201 a 806: 14702430 a 807: 14703794 t		5 10	753: 754: 755: 756: 757: 758: 759: 760: 761:	14649566 14649661 14649855 14650183 14650197 14650588 14650730 14650852 14651277 14651335 14651435 14651435 14652004 14652162 14652276	t c t t g a g g g a t c g c a	c t c c a g a c t g c t a t g
770: 14668382 c 778: 14677906 a 779: 14677931 g 780: 14683707 a 781: 14683953 g 783: 14685321 t 784: 14685566 g 35 785: 14685882 g 786: 14685888 a 787: 14686114 a 788: 14686396 t 789: 14686751 c 40 790: 14686876 c 791: 14687010 g 792: 14687213 a 793: 14689122 t 794: 14689887 a 45 795: 14690010 g 796: 14690527 c 797: 14690527 c 797: 14690527 c 797: 14694039 t 50 800: 14694137 t 801: 14694226 a 802: 14695601 a 803: 14697255 t 804: 14697625 t 55 805: 14698201 a 806: 14702430 a 807: 14703794 t	I	20	768: 769: 770: 771: 772: 773:	14652474 14652694 14653708 14654235 14661002 14662594	C g t a a g	c t a c g g a
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	810: 14709040	C	a
	811: 14713360	t	C
	812: 14713782	C	t ~
5	813: 14715259	t	g
5	814: 14715324 815: 14715436	t	c t
	816: 14715840	c t	a
	817: 14716796	t	a
	818: 14716938	t	a
10	819: 14717692	a	t
10	820: 14720670	t	g
	821: 14720870	a	g
	822: 14720958	a	g
	823: 14721377	g	t
15	824: 14721393	C	g
-	825: 14723843	g	C
1-1	826: 14724043	C	t
	827: 14724396	а	g
	828: 14735736	С	t
20	829: 14746369	g	a
Ň	830: 14747341	С	t
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	833: 14751000	g	a
	834: 14752476	g a	g
2	835: 14755501	g	a
30 30	836: 14757128	a	t
į.	837: 14758013	a	g
□ 30	838: 14760186	a	ğ
·	839: 14761259	t	C
77	840: 14761655	а	g
ni	841: 14761848	С	t
	842: 14762060	C	t
35	843: 14762610	C	t
	844: 14763252	a	g
	845: 14763339	t	g
	846: 14763358	C	t
40	847: 14764385 848: 14764832	C	t a
40	849: 14766118	g c	t
	850: 14766695	C	g
	851: 14767381	c	t
	852: 14767448	g	t
45	853: 14767691	g	t
	854: 14768282	ā	C
	855: 14768485	a	g
	856: 14769892	С	t
= 0	857: 14775735	g	t
50	858: 14778167	a	g
	859: 14778548	g	a
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55	862: 14783170	t	C
55	863: 14783238	g	a +
	864: 14783528 865: 14789648	c	t c
	866: 14789869	g a	g
	867: 14792310	a	g
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	868: 14793132	а	ď
	869: 14793358	C	g t
	870: 14794571	C	t
	871: 14794694	g	a
5	872: 14795297	g	C
_	873: 14795613	t	g
	874: 14800961	C	t
	875: 14801290	a	g
	876: 14806680	C	t
10	877: 14806780	g	t
	878: 14808807	g	a
	879: 14812321	C	t
	880: 14815234	t	g
	881: 14815292	a	g
15	882: 14826491	g	a
	883: 14826755	g	С
	884: 14827063	t	g
는 급 20 투 대	885: 14827326	g	a
	886: 14828570	a	t
□ 20	887: 14828644	t	a
	888: 14830149	C	t
	889: 14830865	C	a
IJ	890: 14832282	t	c
	891: 14837049	t	g
1 25	892: 14837309	t	
. _	893: 14839377	a	g
witte.	894: 14839380	C	g
30	371. 11033300	•	g
	895: 14839479	С	а
= 30	896: 14840370	a	
	897: 14841070	a	g
1	898: 14841947	g	g c
	899: 14844054	C	a
Enter Bat :	900: 14844695	g	t
¹⁴ 35	901: 14847684	g	a
, 55	902: 14856106	a	C
	903: 14856305		C
	904: 14881867	g g	a
	905: 14881913	C	
40	906: 14883268	C	g
	907: 14883463	c	g t
	908: 14883496	a	C
	909: 14884123	a	
	910: 14885200	t	g C
45	911: 14886115	a	g
	912: 14889393	a	g
	913: 14890241	t	C
	914: 14890955	a	C
	915: 14891235	g	t
50	916: 14891547	g	a
	917: 14893013	g	a
	918: 14897516	a	g
	919: 14897784	C	t
	920: 14898476	C	t
55	921: 14898703	t	
33	922: 14899985		g
	923: 14900173	g t	a
	924: 14900736		c t
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	926.	1/10/20	15	a	
	920:				a a
	928:			C	t
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	936:	149162	80	a	g
	937:			C	t
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	943:			C	t
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25	950:				t
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	963:	149470	66	a	t
40	964:			a	g
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45	969:			a	g
	970:	149573	61	t	C
	971:			C	t
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	984:	14967947	С		g
	985:	14967998	C		t
	986:	14968368	g		а
~	987:	14968428	t		C
5	988:	14968442	C		g
	989:	14968847	t		C
	990:	14968966	C		t
	991: 992:	14969157 14969298	g C		c a
10	993:	14970379	t		c C
10	994:	14970418	g		a
	995:	14971526	c		t
	996:	14971688	С		g
	997:	14971772	g		a
15	998:	14973076	g		a
	999:	14973499	C		a
	1000:	14973824	g		С
	1001:	14973949	t		g
20 □	1002: 1003:	14974011 14974148	t		C
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Ñ	1004:	14974378	a		g
년 급 교 교 교 교	1006:	14974460	t		C
	1007:	14982560	a		g
_ 25	1008:	14983098	a		c
rikup	1009:	14983702	a		g
다 다 다 30	1010:	14984246	g		t
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1	1014: 1015:	14985239 14986242	t c		C
	1015:	14986505	t		g g
	1017:	14999579	t		c
35	1018:	14999732	t		С
	1019:	15000805	t		С
	1020:	15001015	C		g
	1021:	15001541	t	•	С
40	1022:	15003015	t		С
40	1023:	15003295	С		t
		15003506	c		a
	1025:	15003702	t		g
	1026:	15004887	а		t
45	1027:	15005096	C		g
	1028:	15005343	t		C
	1029:	15005979	g		t
	1030:	15006994	a		t
50	1031: 1032:	15012376 15012478	g		c t
50	1032:	15012478	c a		g
	1034:	15013750	C		t
	1035:	15014963	g		a
	1036:	15016330	a		g
55	1037:	15017158	g		a
	1038:	15017812	t		C
	1039:	15018193	t		C
	1040:	15018598	C		t
	1041:	15019575	t		С

	1042:	15020203	t	С
		15020205		
	1043:	15020761	a	g
	1044:		C	t
5	1045:	15021675	g	a
3	1046:	15024870	a	C
	1047:	15027668	а	g
	1048:	15028233	a	t
	1049:	15030226	t	C
10	1050:	15030777	C	t
10	1051:	15031770	а	C
	1052:	15031862	а	g
	1053:	15032108	t	С
	1054:	15032579	g	a
	1055:	15042603	C	g
15	1056:	15042663	g	a
	1057:	15043235	a	g
	1058:	15044312	С	t
=======================================	1059:	15044487	g	C
	1060:	15044714	g	а
 20	1061:	15044802	C	t
	1062:	15044846	g	С
T.	1063:	15045769	t	С
n Ti	1064:	15046216	g	t
	1065:	15047935	t	С
_ 25	1066:	15048235	g	a
u	1067:	15049641	g	а
\$	1068:	15052050	a	С
30 \\ \\ \\ \\	1069:	15052308	g	C
Li	1070:	15052666	g	t
30	1071:	15052897	t	g
	1072:	15053077	c	t
÷.į	1073:	15053098	g	a
	1074:	15053372	g	t
ni.	1075:	15053906	a	g
35	1076:	15053965	g	a
	1077:	15054237	t	g
	1078:	15054358	g	t
	1079:	15054369	a	ť
	1080:	15054413	a	g
40	1081:	15054623	c	t
	1082:	15055285	a	g
	1083:		ť	C
	1084:	15056262	C	a
	1085:	15056524	C	g
45	1086:	15056732	t	g
	1000.	15050751	Ŭ	9
	1087:	15057645	С	t
	1087:	15057045	a	g
	1089:	15059081	t	C
50	1009:	15059001	t	С
50	1090:	15059251		t
	1091:	15059251	g t	C
	1092:	15059555		
	1093:	15059511	a	g
55			g	С
33	1095:	15059704	g	С
	1096:	15061168	a	C
	1097:	15061851	a	g
	1098:		a	C
	1099:	15062336	a	С

		1100:	15062876	t	С
		1101:	15062902		t
		1102:	15063240		t
		1103:	15063278	g	С
	5	1104:	15063388		C
		1105:	15063738		C
		1106:	15063889		a
		1107:	15064072		С
		1108:	15064135	C	t
	10	1109:	15064449	C	t
		1110:	15064468	t	С
		1111:	15064803	t	g
		1112:	15064825	a	g
		1113:	15083316	g	t
	15	1114:	15083539		С
		1115:	15085015	a	g
		1116:	15087382	C	t
		1117:	15087549	С	t
=		1118:	15087811	a	С
	20	1119:	15088024	g	a
		1120:	15088408	С	t
F		1121:	15089510	C	t
N		1122:	15090351	. а	g
Ħ		1123:	15091082		a
	25	1124:	15091800	C	g
		1125:	15091818		С
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	30	1129:	15093766		g
		1130:	15094258		t
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	a =	1133:	15096417		С
ħ.	35	1134:	15097205		a
		1135:	15099623		g
		1136:	15100929		g
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	40	1138:	15102639		C
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		1142:	15103649		C
	15	1143:	15103944		C
	45	1144:	15104691		t
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		1150:	15113322	2 a	t
		1151.	15110753		~
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	55	1152:	15113838		a +
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		1156:	15114339 15114389		t
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		1131:	T)TT4040	3 g	a

		1158:	15114880	а		g
		1159:	15114984	C		t
		1160:	15114985	g		a
		1161:	15115208	g		С
	5	1162:	15115270	g		t
	5	1163:	15115270			
				a		g
		1164:	15115656	g		а
		1165:	15115762	g		C
		1166:	15115798	t		С
	10	1167:	15115868	a		g
		1168:	15115872	С		g
:		1169:	15116056	a		Č
		1170:	15116070	t		g
		1171:	15116562	C		ť
	15	1172:	15117228	g		a
	15	1173:	15117223			a
		1174:	15117343	g t		
.						C
		1175:	15117616	g		C
	20	1176:	15118147	t		a
7	20	1177:	15118222	a		g
المست الدور		1178:	15118294	C		t
		1179:	15118320	С		a
N		1180:	15118721	a		C
П		1181:	15118824	g		а
L	25	1182:	15119382	g		t
		1183:	15120030	t		a
w.		1184:	15120282	t		C
€ .		1185:	15120655	c		ť
		1186:	15120709	a		c
	30	1187:	15121042			t
702	50			g		
		1188:	15121068	а		g
		1189:	15121138	С		t
7-		1190:	15121152	С		а
	~ =	1191:	15121365	t		C
u	35	1192:	15121476	C		t
		1193:	15121504	a		g
		1194:	15121563	g		a
		1195:	15121698	C		t
		1196:	15121918	a		g
	40	1197:	15122456	C		g
		1198:	15122528	g		С
		1199:	15122576	c		t
		1200:	15123075	C		t
		1201:	15123299	t		C
	45	1202:	15125594	g		C
	13	1202:	15129221	a		C
		1204:	15129277	t		
		1204.	15129443			C
				t +		C
	50	1206:	15130654	t		C
	50	1207:	15130816	a		g
		1208:	15133882	t		g
		1209:	15135489	a		С
		1210:	15137526	t	•	С
		1211:	15137760	g		а
	55	1212:	15137880	t		С
		1213:	15137947	a		g
		1214:	15138114	t		C
		1215:	15140503	t		С
		•				

	1216:	15140594	g	a
		15143181	t	С
		15143437	t	g
		15143561	g	a
5		15155635		
5			g	C
		15156184	а	g
		15156288	g	С
		15156843	g	С
10		15156864	С	а
10		15157266	a	g
		15157366	a	g
		15157750	g	а
	1228:	15157932	C	t
	1229:	15158367	t	С
15	1230:	15158954	g	а
:	1231:	15159251	a	g
	1232:	15159681	t	g
		15159905	t	c
		15160103	С	g
20		15160229	g	ā
		15160375	a	g
		15160747	a	g
l		15161208	a	g
		15161296	t	C
= 25		15162116	a	g
. <i>23</i>		15162818	C	g
ALCO,		15163393	g	a
		15163709	a	
		15164061	g	g t
30		15164535	a a	C
o o		15164606		
·. i	1247:	15164956	a a	g
74 2014	1247:	15165414		g t
L.		15165880	g	
35	1249:	15166496	a	g
. 33		15166944	a	g
	1251:		C	t
	1252:	15170886	ā	t
	1253:	15171082 15171234	a	C
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40	1255:	15171477	t	C
	1256:	15171575	g	a
	1257:	15172248	C	t
	1258:	15172591	t -	C
15	1259:	15172663	C	t
45	1260:	15173690	C	g
	1261:	15173999	t	C
	1262:	15174464	С	g
	1263:	15174576	С	a
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	1266:	15181517	a	g
	1267:	15182912	g	a
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 -	1269:	15188944	C	g
55	1270:	15190568	а	g
	1271:	15193056	C	а
	1272:	15193235	а	С
	1273:	15196894	C	g
	1274:	15197392	С	g

		1275:	15197616	С	t
		1276:	15198273	а	g
		1277:	15200470	a	g
		1278:	15201112	С	t
	5				
		1279:	15201163	a	g
		1280:	15210195	a	g
		1281:	15210821	g	a
		1282:	15210892	C	t
	10	1283:	15211414	t	C
		1284:	15213038	t	С
		1285:	15213698	a	g
		1286:	15218585	С	t
		1287:	15219179	C	g
	15	1288:	15219910	t	g
		1289:	15219979	t	C
		1290:	15220030	С	a
deneda e		1291:	15221507	t	С
		1292:	15221812	a	g
	20	1293:	15222360	g	С
		1294:	15235712	a	С
Ū		1295:	15236093	g	а
		1296:	15237058	t	С
ere L.L		1297:	15237243	t	а
-	25	1298:	15237826	g	a
		1299:	15245937	g	a
		1300:	15247814	a	С
		1301:	15248287	a	t
Ŀ	20	1302:	15248858	a	g
	30	1303:	15249464	a	C
		1304:	15249918	g	a
===		1305:	15250861	a	g
iad m		1306:	15257591	a	g
IJ	35	1307:	15258299	C	g
	33	1308:	15258781 15259393	t ~	a
		1309: 1310:	15278236	g	C
		1311:	15278332	a	g c
		1312:	15278864	g a	
	40	1313:	15280727	C	g t
	10	1314:	15281279	a	g
		1315:	15284038	a	g
		1316:	15286073	t	a
		1317:	15286767	С	t
	45	1318:	15287268	g	a
		1319:	15287757	ŧ	С
		1320:	15288157	С	t
		1321:	15290861	a	g
		1322:	15292602	t	g
	50	1323:	15292856	a	t
		1324:	15292946	a	t
		1325:	15294452	t	С
		1326:	15294619	a	g
		1327:	15295190	C	t
	55	1328:	15295340	С	g
		1329:	15295448	g	а
		1330:	15295751	a	g
		1331:	15296044	t	C
		1332:	15298911	С	t

		1333:	15299701	a	g
		1334:	15301236	t	С
		1335:	15301721	a	g
	5	1336: 1337:	15302795 15304359	c c	t t
	3	1337:	15304359	c	t
		1339:	15305451	C	t
		1340:	15305499	С	t
	10	1341:	15306159	a	g
	10	1342:	15307257	С	t
		1343:	15326402	C	g
		1344:	15327372	g	a
	15	1345: 1346:	15327854 15328122	t c	c t
	13	1347:	15329473	a	g
Ε .		1348:	15330241	a	g
ļ.d.		1349:	15330332	С	t
	20	1350:	15330473	g	a
	20	1351:	15330915	a	C
		1352: 1353:	15334013 15335579	t c	a t
		1354:	15335902	g	c
hd hd		1355:	15337003	ť	C
	25	1356:	15337602	C	t
		1357:	15337928	С	t
is manife E		1358: 1359:	15338527 15338830	g t	C
		1360:	15339015	C	t
2111	30	1361:	15339975	ĝ	a
San Con San Her.		1362:	15340878	C	t
*4 ≠=4		1363:	15340950	C	t
T.		1364: 1365:	15342242 15342864	t	C
14	35	1366:	15342804	a C	g a
		1367:	15343820	a	g
		1368:	15343964	g	a
		1369:	15344149	a	g
	40	1370: 1371:	15344260 15344700	a a	g C
	70	1371:	15345417	a C	t
		1373:	15345590	C	t
		1374:	15345802	a	g
	15	1375:	15345997	g	t
	45	1376: 1377:	15346966 15347172	c t	t
		1378:	15347172	t	c g
		1379:	15347471	C	t
	~ 0	1380:	15347710	С	t
	50	1381:	15347796	C	a
		1382: 1383:	15347920 15348439	a	g
		1384:	15348529	g g	c t
		1385:	15348906	t	c
	55	1386:	15349540	a	g
		1387:	15350434	С	t
		1388:	15350912	g	a
		1389: 1390:	15357981 15358427	g c	a t
		±330;	10000441	C	L

		1391:	15360697	a	g
		1392:	15360917	t	С
		1393:	15360943	C	t
	5	1394:	15363937 15366193	a	t ~
	5	1395: 1396:	15366365	a a	g C
		1397:	15367309	t	C
		1398:	15367886	c	t
		1399:	15368346	C	a
	10	1400:	15369041	a	g
		1401:	15369192	C	g
		1402: 1403:	15371582 15371834	t	C
		1403:	15371834	g t	a a
	15	1405:	15372883	g	C
		1406:	15373382	c	t
ĵ.					
		1407:	15376003	t	C
	20	1408: 1409:	15376545 15377765	g	c a
	20	1410:	153777859	g t	a
all and the limit of the limit		1411:	15378300	g	t
		1412:	15379758	g	a
	25	1413:	15380744	t	С
	25	1414:	15381135	t	g
		1415: 1416:	15381405 15381459	t C	c t
		1417:	15381699	g	C
		1418:	15381786	C	t
	30	1419:	15381927	g	а
		1420:	15383192	t	C
		1421:	15383785	t	С
		1422: 1423:	15385245	t	C
	35	1423:	15385354 15386150	c c	a t
	33	1425:	15386401	a	g
		1426:	15387951	a	t
		1427:	15387995	С	g
	40	1428:	15389985	t	C
	40	1429: 1430:	15390251 15390643	a	g
		1430:		g c	a t
		1432:	15409236	c	t
		1433:	15410370	g	a
	45	1434:	15410509	g	а
		1435:	15411476	t	С
		1436: 1437:	15412787 15414565	t t	C
		1437:	15414303	t	c a
	50	1439:	15415790	t	C
		1440:	15416105	t	C
		1441:	15416836	C	g
		1442:	15418302	t	С
	55	1443:	15419812 15423572	t	a +
	JJ	1444: 1445:	15423572	a a	t g
		1446:	15425337	t	a
		1447:	15425888		g
		1448:	15427076	С	t

		1449:	15427774	С	t
		1450:	15428455	С	а
		1451:	15430737	С	t
		1452:	15430820	а	g
	5	1453:	15430977	a	g
		1454:	15431009	a	g
		1455:	15431108	g	а
		1456:	15431384	a	g
		1457:	15431734	t	С
	10	1458:	15432013	t	g
		1459:	15432686	t	g
		1460:	15437902	C	g
		1461:	15438917	С	t
	1 ~	1462:	15439622	g	a
	15	1463:	15443427	a	t
		1464:	15443645	C	t
11		1465:	15443857	a	g
H		1466:	15444727	t	С
	20	1467:	15450381	g	a
=	20	1468:	15450655	t	С
		1469:	15451393	a	C
H		1470:	15453228	t	С
		1471.	15454405	_	_
1	25	1471: 1472:	15454485 15457603	C	t
	43	1472:	15457603	t t	C
		1474:	15450702	C	c t
		1475:	15460565		a
		1476:	15462506	g a	
	30	1477:	15463003	g	g a
	50	1478:	15463092	a	C
٦		1479:	15464063	g	C
		1480:	15464626	t	С
11		1481:	15464934	t	C
-	35	1482:	15465284	a	С
		1483:	15467849	t	С
		1484:	15468390	t	g
		1485:	15471797	t	С
		1486:	15472451	С	t
	40	1487:	15473157	g	а
		1488:	15473855	С	а
		1489:		a	g
		1490:	15474878	a	С
	15	1491:		t	g
	45	1492:	15475625	g	a
		1493:	15476413	t	С
		1494:	15478861	a	g
		1495:	15479973	t	C
	50	1496:	15487398	t	C
	50	1497: 1498:	15490194 15490358	g	a
		1499:	15491723	C	a
		1500:	15495785	C C	g t
		1501:	15495765		
	55	1501:	15496250	g a	a
		1502:	15498854	g g	g C
		1503:	15499196	g	c
		1505:		a	c
		1506:		C	t
				-	-

		1507.	15502665		
		1507:	15523665	a	g
		1508:	15524016	t	C
		1509:	15527375	a	t
		1510:	15527457	t	a
	5	1511:	15527780	a	
	5				g
		1512:	15529195	t	С
		1513:	15529261	a	g
		1514:	15529955	t	C
		1515:	15532781	С	t
	10	1516:	15533397	g	a
		1517:	15533879		
				t	C
		1518:	15534695	g	t
		1519:	15535616	g	а
		1520:	15536274	a	C
	15	1521:	15536511	С	t
		1522:	15536677	g	a
		1523:	15536799		
<u>L</u>				C	a
-		1524:	15537359	t	g
	••	1525:	15537618	a	C
	20	1526:	15537702	g	t
E		1527:	15538279	c	t
		1528:	15538634	c	
lŲ					t
m		1529:	15538756	С	t
1 :		1530:	15540283	С	t
-	25	1531:	15540330	a	t
II.		1532:	15540502	a	g
		1533:		C	
رب چنجن		1534:	15540890		g
		1334:	13340030	t	С
	20	4-0-			
- -	30	1535:	15541750	t	С
		1536:	15541758	g	a
7-4		1537:	15542644	t	С
7		1538:	15543464	a	
20 I		1539:	15546803		g
i i	35			g	t
	55	1540:	15551175	C	t
		1541:	15552203	t	С
		1542:	15552298	C	a
		1543:	15552852	С	g
		1544:	15554945	С	t
	40	1545:	15556161	g	t
	.0	1546:	15556541		
				g	а
		1547:	15563972	С	t
		1548:	15564801	g	а
		1549:	15566839	C	t
	45	1550:	15569911	a	g
		1551:	15577877	С	ť
		1552:	15578595	C	
					t
		1553:	15580026	С	t
		1554:	15580045	t	С
	50	1555:	15580175	С	t
		1556:	15580249	a	С
		1557:	15582161	a	
		1558:	15582688	t	g
					C
	<i>E E</i>	1559:	15582848	С	t
	55	1560:	15582933	С	t
		1561:	15586302	a	g
		1562:	15587858	С	g
		1563:	15588925	C	
		1564:	15591800		g
		1004:	TOOTECT	a	t

		1565:	15591859	С	g
		1566:	15600225	С	t
		1567:	15608114	t	С
	_	1568:	15608937	g	a
	5	1569:	15616547	C	t
		1570:	15616879	t	С
		1571:	15617219	t	g
		1572:	15618262	t	а
	4.0	1573:	15618417	С	g
	10	1574:	15618515	С	t
		1575:	15620129	g	a
		1576:	15621865	С	t
		1577:	15622109	С	t
	15	1578:	15637711	à	a
	15	1579:	15638452	t	С
		1580:	15638866	a	g
		1581:	15639437	g	C
ļ£		1582: 1583:	15642518 15642674	a ~	g
	20	1584:	15645314	g	a
	20	1585:	15648663	C C	t +
		1586:	15649103	a	t c
7 I		1587:	15654686	a	С
14		1588:	15656541	t	C
IJ	25	1589:	15657411	g	a
11		1590:	15658739	C	t
I		1591:	15663546	c	g
E		1592:	15663679	a	g
1		1593:	15663852	g	t
E 1	30	1594:	15663985	g	t
		1595:	15664082	g	C
		1596:	15664145	g	a
2.2		1597:	15669261	g	a
		1598:	15670027	t	C
IJ	35				
		1599:	15670322	t	С
		1600:	15671011	g	С
		1601:	15673660	g	a
	40	1602:	15674299	C	t
	40	1603: 1604:	15676072 15676310	g t	a ~
		1604:	15676356		g
		1606:	15676536	a	g
		1607:	15676688	c t	g g
	45	1608:	15677147	C	t
		1609:	15679492	C	t
		1610:	15679661	g	a
		1611:	15681218	g	C
		1612:	15681673	a	g
	50	1613:	15682323	a	g
		1614:	15682327	t	a
		1615:	15682496	t	g
		1616:	15682558	С	t
		1617:	15682686	a	g
	55	1618:	15682767	t	C
		1619:	15683565	t	С
		1620:	15684832	g	a
		1621:	15687108	С	g
		1622:	15687904	t	С

		1623:	15688284	l t	_
		1624:	15688553		c t
		1625:	15689098		t
	_	1626:	15689545		С
	5	1627:	15690113		g
		1628: 1629:	15690137 15690191		a
		1630:	15690624		c a
		1631:	15690902	_	g
	10	1632:	15691598		a
		1633:	15692228		g
		1634: 1635:	15692260 15692271		t t
		1636:	15692337		C
	15	1637:	15692526	j c	t
		1638:	15692586		С
		1639:	15692696		a
11		1640: 1641:	15692747 15692833		t C
	20	1642:	15693076		g
		1643:	15693152	a	C
		1644:	15693231		a
IJ		1645:	15693325		t
IJ	25	1646: 1647:	15693734 15693746		g t
		1648:	15694033		g
w.		1649:	15694052		C
≊ 		1650:	15694619		g
Ų.	30	1651: 1652:	15694659 15703901		C
	50	1653:	15707451		C C
		1654:	15707939		C
~\ 		1655:	15707979	g	С
	25	1656:	15708291	_	a
14	35	1657: 1658:	15708450 15709137	_	a t
		1659:	15710288		C
		1660:	15710413		g
	40	1661:	15711217		С
	40	1662:	15712103	S C	t
		1663:	15712240) t	C
		1664:	15713181	. c	t
	4.~	1665:	15713268		t
	45	1666:	15714196	_	t
		1667: 1668:	15714283 15714823		t c
		1669:	15714913		C
		1670:	15715978		C
	50	1671:	15718084		g
		1672:	15718481 15718631		t
		1673: 1674:	15718740		C C
		1675:	15718816		a
	55	1676:	15722417	_	a
		1677:	15724448		g
		1678:	15730898		a ~
		1679: 1680:	15731033 15732704		g g
			_5,52,0		3

		1681:	15733164	g	t
		1682:	15733187	c	t
		1683:	15736091	t	С
	_	1684:	15736526	g	а
	5	1685:	15737076	a	g
		1686:	15739695	a	С
		1687:	15739891	g	a
		1688: 1689:	15740481 15751366	C	a
	10	1690:	15753534	a t	g
	10	1691:	15756338	C	g t
		1692:	15759372	a	g
		1693:	15762194	C	t
		1694:	15773733	a	g
	15	1695:	15777456	g	C
		1696:	15778730	С	t
		1697:	15779025	g	a
		1698:	15783049	a	g
	20	1699: 1700:	15783412 15799315	C	t
	20	1701:	15799533	g t	a c
IJ		1702:	15806274	C	a
D		1703:	15809218	t	C
-4		1704:	15816136	C	t
ā	25	1705:	15817833	С	t
		1706:	15818484	С	t
		1707:	15819000	С	t
السية أ		1708:	15819001	g	a
; 	30	1709: 1710:	15819890 15820114	a	t ~
	50	1711:	15828926	a g	g a
		1712:	15829019	g	C
		1713:	15829255	g	t
¥		1714:	15830468	a	g
	35	1715:	15831550	g	t
		1716:	15832981	С	t
		1717:	15834204	а	g
		1718: 1719:	15835339 15836962	a	g
	40	1719:	15842893	C C	t t
	70	1721:	15843308	a	g
		1722:		a	g
		1723:	15847522	a	g
		1724:		a	g
	45	1725:	15848531	a	g
		1726:	15849033	g	a
		1727:	15040007		
		1727:	15849827 15850206	a C	g t
	50	1729:	15850845	a	t
		1730:	15851620	C	a
		1731:	15852141	С	t
		1732:	15853572	С	t
	ــر ـــ	1733:	15853834	С	t
	55	1734:	15854287	C	t
		1735:	15854345	g	t
		1736: 1737:	15854383 15854491	c t	t
		1737:		a	c g
		_,50.	10004000	u	A

	1739:	15855036	g		a
			t		С
					g
5					C
5					a
					g c
					g
			t		g
10	1748:	15890995	g		t
	1749:	15892019	g		t
			t		g
			a		t
15					g
13					g
					a ~
					g g
					g
20					t
	1759:	15932544	t		С
	1760:	15933606	С		t
	1761:	15935097	g		t
٥.	1762:		С		t
25					t
					g
					t t
					g
30					g
		15943625	C		a
	1770:	15944014	t		С
		15983697	g		t
25			С		t
35					g
					a
					a
					c a
40					g
	1779:	16008657	t		g
	1780:	16009127	t		c
	1781:	16024511	g		C
15					С
43					С
					g
					t a
					t
50		16038497			t
	1789:	16038572			С
	1790:	16039175	g		a
55	1791:		g		a
55	1792:	16041425 16042095	C		t
		1004/095	C		t
	1793:				
	1794:	16045383	C		t
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		1797:	16047021	2	~
				a	g
		1798:	16047262	g	t
		1799:	16052110	t	С
		1800:	16054857	g	a
	5	1801:	16056362	t	
	5				g
		1802:	16057875	g	t
		1803:	16058116	g	a
		1804:	16058654	g	a
		1805:	16060655	t	
	10				g
	10	1806:	16061286	a	t
		1807:	16062047	t	С
		1808:	16065804	a	С
		1809:	16067677	g	t
	1.5	1810:	16070093	t	C
	15	1811:	16070754	t	C
		1812:	16073742	g	a
		1813:	16075005	g	a
<u> </u>		1814:	16075669		
				g	a
	••	1815:	16076345	a	g
=	20	1816:	16077846	g	а
===		1817:	16079168	С	t
zį:		1818:	16080584	a	С
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	~ =	1820:	16081844	g	а
	25	1821:	16082851	a	g
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		1823:	16087921	g	a
I		1824:	16089418		
				a	g
	20	1825:	16098425	a	g
-	30	1826:	16099068	C	t
		1827:	16101029	С	t
- i		1828:	16101238	g	a
		1829:	16101503	t	
					g
74	25	1830:	16101922	t	g
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		1832:	16103415	a	g
		1833:	16104748	a	t
		1834:	16105384	a	
					ā
	40	1835:	16105646	g	t
	40	1836:	16105738	a	g
		1837:	16106737	a	С
		1838:	16107103	С	t
		1839:	16107196	g	t
		1840:	16108455		
	15			g	t
	45	1841:	16109490	а	g
		1842:	16109580	a	g
		1843:	16110463	t	a
		1844:	16110632	C	t
	5 0	1845:	16111189	g	a
	50	1846:	16111591	a	g
		1847:	16113216	g	t
		1848:	16113257	g	t
		1849:	16113390		t
				a	
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	55	1851:	16113549	C	t
		1852:	16116286	а	t
		1853:	16117063	a	g
		1854:	16118964	c	t
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		1855:	16120186	a	g
		1856:	16122504	a	g
		1857:	16123008	а	g
	_	1858:	16123345	С	t
	5	1859:	16123364	g	t
		1860: 1861:	16124187 16125749	g g	c t
		1862:	16125865	g	t
		1863:	16126708	ť	g
	10	1864:	16126807	С	g
		1865:	16128540	a	g
		1866:	16128689 16130538	g	t
		1867: 1868:	16132743	t a	g g
	15	1869:	16133485	C	t
		1870:	16136056	g	С
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L	25	1878:	16165307	a	g
ű	25	1879: 1880:	16166790 16168106	a C	g t
		1881:	16170838	t	C
		1882:	16172349	t	g
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	30	1884:	16176693	a	t
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		1890:	16191151	a	g
		1891: 1892:	16192017 16194730	a a	c g
		1893:	16196493	a	g
	40	1894:	16236531	C	t
		1895:	16252821	a	g
			16258852	C	t
		1897: 1898:	16259538 16260888	a C	c t
	45	1899:	16262068	C	t
		1900:	16262116	a	g
		1901:	16263909	g	t
		1902:	16265700	g	t ~
	50	1903: 1904:	16271911 16291109	a a	a a
	50	1905:	16291287	C	t
		1906:	16291786	C	t
		1907:	16293662	С	t
	<i>5 </i>	1908:	16294248	C	t
	55	1909:	16294712	a	g
		1910: 1911:	16297048 16297346	a C	g t
		1912:	16297483	c	t
		1913:	16298444	t	С

5	1916: 1917:	16298955 16299046 16299075 16303288	a a t a	д д
3	1918: 1919: 1920:	16315275 16315387 16316186	c c a	a g c t
10	1921: 1922: 1923: 1924:	16316358 16319511 16320378 16322237	c a c c	c g t
15	1925: 1926: 1927: 1928:	16325752 16325830 16326227 16326308	g a g t	c g a g
20	1929: 1930: 1931: 1932:	16329069 16329479 16330121 16333100	a g a C	g a g t
25	1933: 1934: 1935: 1936:	16378917 16380869 16380899 16381622	t g t	g a c g
25	1937: 1938: 1939: 1940:	16383528 16383899 16384514 16384739	с д д	t a a t
30	1941: 1942: 1943: 1944:	16388633 16392905 16395041 16402116	c t g	t t g a
35	1945: 1946: 1947: 1948:	16406304 16408589 16408986 16424883	a c t	t t c
40	1949: 1950: 1951: 1952: 1953:	16424907 16426165 16428818 16428839 16428970	t t g g a	g c a a c
45	1955: 1956: 1957: 1958:	16428972 16429658 16429834 16431077 16431543	g g c c	a a t t t t
50	1959: 1960: 1961: 1962: 1963:	16432062 16432429 16432435 16433600 16434815	c g c t a	tatgta
55	1964: 1965: 1966: 1967: 1968:	16436168 16437161 16439207 16439610 16440409	у с а у а	at gag+
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	1972: 1973: 1974: 1975:	16444793 16444853 16445966 16447816	a g c t	t c t
5	1976: 1977: 1978: 1979:	16447871 16450392 16450484 16451628	a C C	g t t
10	1980: 1981: 1982:	16452996 16453065 16453099	t g t	a a a
15	1983: 1984: 1985: 1986:	16453301 16453626 16453892 16454879	c t g t	t c g
1 20	1987: 1988: 1989: 1990: 1991:	16454970 16454998 16455090 16455267 16455483	а а с	t a a
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30 1	2000: 2001: 2002: 2003:	16488835 16489507 16492477 16492789	c t a c	t a g t
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40	2008: 2009: 2010: 2011: 2012:	16500320 16501953 16502443 16504287 16505490	t c a c t	c t g a c
45	2012: 2013: 2014: 2015: 2016: 2017: 2018:	16507808 16515047 16516564 16520502 16523962 16533898	t t c a c	
50	2019: 2020: 2021: 2022: 2023:	16534022 16534686 16535187 16535264 16540105	c c t a g	a t g c t
55	2024: 2025: 2026: 2027: 2028: 2029:	16541642 16543307 16543528 16543678 16544628 16546416	9010191	tctcac

	5	2031: 2032: 2033: 2034: 2035: 2036: 2037: 2038: 2039: 2040: 2041: 2042: 2043:	16547698 16549783 16550894 16551756 16551848 16552169 16556121 16556709 16556948 16557761 16560196 16560281 16561763 16562461	днарррррсаарра	а у у таааа т у с с а у
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	20	2047: 2048: 2049: 2050: 2051:	16565531 16566784 16569372 16569813 16570637	c t c g a	t c g t
	25	2052: 2053: 2054: 2055: 2056: 2057:	16572679 16573949 16576931 16581310 16583863 16585147	t t g c c t	a c a g t a
	30	2057: 2058: 2059: 2060: 2061: 2062:	16587573 16587702 16587910 16588289 16588769	д д с д д г	aataaa
	35	2062: 2063: 2064: 2065: 2066: 2067:	16588795 16590838 16590876 16591006 16591349	C C a a a	99900
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	50	2078: 2079: 2080: 2081: 2082:	16609220 16611949 16617559 16618136 16619778	с g g a	t t a g t
	55	2083: 2084: 2085: 2086: 2087:	16619902 16620350 16622028 16623725 16626202	a t t g t	g C C C C

		2088:	16627334	g	a
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	10	2097:	16662394	С	t
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		2099:	16672093 16673519	a a	g
		2100: 2101:	16676231	a	g t
	15	2102:	16677194	a	g
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	20	2115:	16706524	С	t
	30	2116: 2117:	16712857 16713703	C C	a t
		2118:	16714465	t	c
4		2119:	16717283	С	t
	25	2120:	16719083	С	g
T	35	2121:	16720040	a	C
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		2124:	16722699	a	c
		2125:	16723138	a	g
	40	2126:	16724498	С	t
		2127: 2128:	16725584 16727691	C	t t
		2129:	16728578	C C	g
		2130:	16730217	g	ā
	45	2131:	16731800	a	g
		2132:	16733911	C	t
		2133: 2134:	16735683 16743342	a a	a a
		2135:	16743442	a	t
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		2137:	16744791	g	t
		2138:		C	t
		2139: 2140:	16748996 16752119	a a	g
	55	2141:		c	t
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		2146:	16755168	ď	a
			16757712	g a	g
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	5		16761370	a	g
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		2153: 2154:	16762736 16763708	a a	t
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	10	2156:	16768206	a	g
		2157:	16771694	t	C
		2158:	16774507	t	g
	1.5	2159:	16774733	а	g
	15	2160:	16775835	g	t
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i		2163:	16779515	a	c
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	20	2174:	16796856	t	g
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	40	2184:	16803878	C	g
		2185:	16806306	a	g
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	5	2441:	17140500	t	g a
		2442:	17143932	t	C
		2443:	17144116	a	t
		2444:	17145410	g	a
	10	2445:	17145466	t	С
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		2473:	17192291	C	t
		2474:	17192323	t	С
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	10	2966: 17833983 2967: 17835269	c t	C
	10	2967: 17835269 2968: 17836520	g	a
		2969: 17836781	C	g
		2970: 17841917	t	c
		2971: 17843934	t	C
	15	2972: 17844423	С	g
		2973: 17847113	а	g
		2974: 17850031	g	а
		2975: 17852052	С	ā
	••	2976: 17855415	С	t
	20	2977: 17858294	a	c t
int:		2978: 17864141	g	g
ň		2979: 17865880 2980: 17867102	a a	g
m		2980: 17867102 2981: 17872103	C	t
	25	2982: 17872957	t	С
ij	23	2983: 17873857	a	C
		2984: 17885094	С	g
2 2		2985: 17887099	t	C
		2986: 17888521	t	С
	30	2987: 17902559	C	a
		2988: 17902569	a	g
£		2989: 17902876	g	a a
		2990: 17903104 2991: 17903222	g c	t
T	35	2991: 17903222 2992: 17903743	t	a
-	33	2993: 17903827	t	С
		2994: 17904859	t	С
		2995: 17905021	g	а
		2996: 17905668	a	t
	40	2997: 17905975	C	g
		2998: 17908674	g	t
		2999: 17909256	t	C
		3000: 17911473	С	a g
	45	3001: 17911594 3002: 17912462	c t	g
	45	3002: 17512402	t	c
		3004: 17912924	c	t
		3005: 17913950	а	g
		3006: 17914144	t	С
	50			
		3007: 17915236	С	t
		3008: 17920938	g	a t
		3009: 17921268 3010: 17921350	c t	C
	55	3010: 17921350 3011: 17921369	C	t
	55	3012: 17933425	C	t
		3013: 17935423	c	t
		3014: 17935888	С	t
		3015: 17937617	C	g

		3016: 17938723 3017: 17939084	a g	C a
		3018: 17939115	t	С
	5	3019: 17939742 3020: 17939986	a C	g a
	3	3020: 17939988	g	С
		3022: 17941840	t	C
		3023: 17942620 3024: 17943731	g t	a g
	10	3025: 17943777	t	С
		3026: 17955426	t	C
		3027: 17956818 3028: 17966204	a C	g t
		3029: 17968513	C	g
	15	3030: 17969043	a	g t
		3031: 17969075 3032: 17970354	g c	t
: .		3033: 17972629	a	g
	20	3034: 17973274	g	a t
	20	3035: 17974892 3036: 17978997	a a	a
		3037: 17983505	g	a
		3038: 17983822	C	t
ij	25	3039: 17987325 3040: 17988096	a t	g C
ļub 		3041: 17991260	t	C
ļĪ.		3042: 17991844	g	a a
		3043: 17991933 3044: 17991961	c t	g
	30	3045: 17992340	C	t
		3046: 17992669	c	t c
į. Į		3047: 17994812 3048: 17995075	g t	C
		3049: 17995757	a	g
	35	3050: 17996222	c t	t g
		3051: 17996520 3052: 17997406	g	C
		3053: 17998464	a	C
	40	3054: 17999408 3055: 17999483	g a	t c
	40	3056: 17999616	g	a
		3057: 17999790	a	g
		3058: 18000063 3059: 18000103	c t	t
	45	3060: 18000178	g	a
		3061: 18001339	g	a
		3062: 18001405 3063: 18002501	t c	c t
		3064: 18003768	a	g
	50	3065: 18004013	a	C
		3066: 18004040 3067: 18004202	t g	c t
		3068: 18004308	C	t
		3069: 18004507	С	t +
	55	3070: 18004554	a	t
		3071: 18004573	t	С
		3072: 18004627	g	a g
		3073: 18004806	a	9

		3074: 18004945	С	t
		3075: 18004989	g	а
		3076: 18005122	С	t
		3077: 18005896	t	С
	5	3078: 18006127	t	С
		3079: 18006206	а	g
		3080: 18006260	g	t
		3081: 18006365	t	C
	10	3082: 18006954	С	t t
	10	3083: 18007031	C	
		3084: 18007042	a t	g c
		3085: 18007187 3086: 18007515	a	g
		3087: 18007521	a	t
	15	3088: 18007703	a	g
	15	3089: 18007737	C	t
_		3090: 18007825	g	a
		3091: 18011843	a	С
		3092: 18021152	а	g
	20	3093: 18021191	g	a
alia iua		3094: 18021303	g	a
T		3095: 18021524	a	c t
		3096: 18022707	a	a
į.i.	25	3097: 18025392 3098: 18030997	g t	c
	23	3099: 180333814	g	a
		3100: 18033962	g	а
grana.		3101: 18064060	C	t
		3102: 18064455	С	t
32500	30	3103: 18064623	С	t
turi 		3104: 18066263	а	g
*±		3105: 18066463	С	t
		3106: 18066998	С	t
TŲ	25	3107: 18067103	t	a a
•	35	3108: 18067290 3109: 18069198	g t	C
		3109: 18069198 3110: 18069910	g	a
		3111: 18070164	g	а
		3112: 18072572	g	а
	40	3113: 18072925	t	C
		3114: 18074338	С	t
		3115: 18074380	a	C
		3116: 18074455	С	t
	. ~	3117: 18075694	g	a
	45	3118: 18076179	a	g
		3119: 18076283 3120: 18076338	a g	a
		3121: 18080048	a a	g
		3122: 18081695	a	g
	50	3123: 18082352	C	t
		3124: 18083163	t	С
		3125: 18084356	С	t
		3126: 18086551	а	g
		3127: 18086717	С	t
	55	3128: 18087120	a	g
		3129: 18087431	t	c t
		3130: 18087675	c	t
		3131: 18087828 3132: 18087883	g a	g
		2T27: T0001002	a	9

actctaggaggtct

g t

g c t t

```
3133: 18088892
                                                С
        3134: 18089833
                                                g
        3135: 18090029
                                                g
    5
        3136: 18091780
                                                t
        3137: 18093344
                            С
                                                t
        3138: 18094667
        3139: 18098102
                                                С
                                                а
         3140: 18102051
                                                g
         3141: 18103547
   10
                            С
         3142: 18103621
                                                а
         3143: 18105666
                            а
                                                g
         3144: 18112452
                            а
         3145: 18113119
                                                а
   15
         3146: 18114308
                                                а
                                                С
         3147: 18125288
         3148: 18129336
                                                а
                            g
3149: 18134303
                                                С
                            g
                                                t
         3150: 18137041
                             g
                                                а
         3151: 18138481
   20
                             g
         3152: 18138871
                                                g
                             а
                                                С
         3153: 18141716
                             g
                                                С
         3154: 18142013
                             t
D#U
                                                g
         3155: 18142482
                             а
         3156: 18142498
                             g
                                                g
         3157: 18143539
         3158: 18144507
                             g
                                                 g
         3159: 18146381
                             а
         3160: 18147285
                                                 g
                             а
    30
         3161: 18147368
                             g
         3162: 18147479
                                                 g
                             t
         3163: 18147849
                                                 g
                             t
         3164: 18148090
                                                 g
t
                             а
         3165: 18148391
                             g
                                                 t
    35
         3166: 18149727
                             а
                                                 t
         3167: 18162515
                             С
         3168: 18167850
                                                 С
                             а
         3169: 18169299
                                                 t
                             С
         3170: 18170395
                             g
    40
                                                 Table 2
                                                 ALTERNATE_BASE
                             REFERENCE_BASE
                POSITION
                                                 С
             1: 13786332
                             g
                                                 С
    45
             2: 13789552
                             t
                                                 t
             3: 13794088
                             g
                                                 g
             4: 13795042
                             t
                                                 С
             5: 13795784
                             g
                                                 g
             6: 13798031
                             а
                                                 а
             7: 13798945
    50
                              g
                                                 t
             8: 13808775
                              g
                                                 а
             9: 13810343
                              t
                                                 g
            10: 13845012
                              t
                                                 а
            11: 13857670
                              t
                                                 g
     55
            12: 13863248
                              а
            13: 13868547
                                                 g
            14: 13871664
```

g

		15: 13872007 16: 13944350 17: 13946958 18: 13952218	t c g	g a t a
	5	19: 13952240 20: 13953249 21: 13955300	c c a	t t g g
	10	22: 13955542 23: 13957524 24: 13969607 25: 13989352	a C G C	t a t
	15	26: 13991942 27: 13994180 28: 13998796 29: 14012310 30: 14022029 31: 14055038	t a c a c g	c g t c t a
	20	32: 14056661 33: 14057058 34: 14057841 35: 14063842	a c a t	g t g c c
	25	36: 14064036 37: 14065022 38: 14065054 39: 14072304 40: 14077207 41: 14089145	a a t c t	д с д с
and the first that the	30	42: 14092446 43: 14109164 44: 14136408 45: 14152957 46: 14154909	c t a c	t c a g t
	35	47: 14163567 48: 14202814 49: 14202816 50: 14203860 51: 14227826	g a g t c	c g a c t
	40	52: 14233001 53: 14246775 54: 14249388 55: 14251065 56: 14253526	g a g t	t g a c c
	45	57: 14282614 58: 14289973 59: 14303801 60: 14305564 61: 14308745 62: 14309271	с д а д а	t t t a g a
	50	63: 14313634 64: 14316517 65: 14336497	c t a	a c g
	55	66: 14337704 67: 14341977 68: 14344127 69: 14344521 70: 14347249 71: 14348761 72: 14356012	t c a t c g t	c g c g t a g

	5	73: 14357072 74: 14368727 75: 14380858 76: 14381653 77: 14412471 78: 14443836 79: 14450249 80: 14523926 81: 14529213 82: 14560271 83: 14591293 84: 14601683 85: 14614643	七 C C a g C t a t g g t t	gttgcaagcaacc
	15	86: 14627536 87: 14639294 88: 14639798 89: 14666163 90: 14686785	c c c t c	a t t c t
The first was the first that the	20	91: 14778389 92: 14791193 93: 14806046 94: 14808476	t t t a	g g a
	25	95: 14808794 96: 14809810 97: 14809974 98: 14814482 99: 14814537	g c g t	a t t a a
Harris Ha	30	100: 14823503 101: 14825824 102: 14826425 103: 14827550 104: 14834456	g t g c	t c a t g
Hard Hard	35	105: 14842048 106: 14886344 107: 14890054 108: 14892017	t g a c	c t c t
	40	109: 14892649 110: 14900671 111: 14945268 112: 14946296 113: 14951614 114: 14951808 115: 14957690	c a t a a c c	t c g g g a
	45	116: 14965613 117: 14970970 118: 14999022 119: 14999072	c g g a	t a a C
	50	120: 14999132 121: 14999231 122: 14999774 123: 14999842 124: 15000185 125: 15000225 126: 15000615	t a c t c t g	g g t g a a a
	55	127: 15000928 128: 15001303 129: 15001357 130: 15001514	g c a c	c t c g

		131:	15001760	g	a
		132:	15001785	g	a
		133:	15001983	a	g
	_	134:	15002044	C	t
	5	135:	15002118	t	С
		136:	15002260	g	C
		137:	15002436	g	C
		138: 139:	15002447 15002601	a	g
	10	140:	15002601	a a	g
	10	141:	15002001	C	a a
		142:	15003166	g	t
		143:	15003544	C	a
		144:	15003596	t	c
	15	145:	15003973	g	t
		146:	15004000	c	t
		147:	15004200	g	a
		148:	15004222	t	g
		149:	15004468	t	C
	20	150:	15004577	g	a
-		151:	15004725	а	t
		152:	15004739	t	С
m		153:	15004935	g	C
	25	154: 155:	15004988 15005084	C	t
	43	156:	15005084	g	a
ı.		157:	15005148	a a	g
ž.		158:	15005135	g	a
		159:	15025974	t	C
the fall the fall for	30	160:	15026705	a	С
		161:	15048712	a	g
		162:	15087229	g	a
7		163:	15115597	C	а
FE S		164:	15141829	a	g
1 14	35	165:	15143231	g	a
		166:	15210898	g	t
		167:	15232784	C	t
		168:	15249147	t	a
	40	169: 170:	15286306 15298032	t t	C
	70	171:	15299313	g	t
		172:	15335133	C	t
		173:	15351079	a	t
		174:		t	g
	45	175:	15370212	а	g
		176:	15373919	t	С
		177:	15374182	a	g
		178:	15375609	а	t
	~ 0	179:		t	a
	50	180:		t	C
		181:		C	t
		182: 183:		a t	t C
		184:		a	t
	55	185:		t	g
	55	186:		t	C
		187:		a	g
		188:		t	C
		189:		a	С

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		190:	15471061	t	С
		191:	15522640	a	С
		192:	15553225	a	g
	5	193:	15555505	С	t
		194:	15565145	a	g
		195:	15617474	t	С
		196:	15642114	a	g
		197:	15679735	t	g
	10	198:	15696652	t	C
		199:	15708909	t	С
		200:	15711358	à	a
		201:	15742331	t	C
	15	202:	15745340	C	g
	13	203: 204:	15792778 15809741	C	t
		205:	15813986	a C	g t
		206:	15814037	a	g
ļė		207:	15815872	g	a
	20	208:	15815917	t	C
Hard the deal floor will family the first floor	_ •	209:	15817984	t	С
		210:	15818374	a	g
7		211:	15849570	а	С
# 12 677		212:	15857950	a	t
₩.	25	213:	15865992	t	а
.72		214:	15881133	g	С
		215:	15887520	t	С
æ		216:	15895527	g	C
	20	217:	15903809	a	t
Constitution of the second sec	30	218:	15922876	g	a t
		219: 220:	15937899 15949824	C C	t
		221:	15954079	t	c
THE STATE OF		222:	15955158	a	g
77.1	35	223:	15970406	t	c
ij		224:	15978044	ā	a
		225:	16029704	a	g
		226:	16030927	t	C
		227:	16035195	a	g
	40	228:	16038904	g	С
		229:	16056870	С	t
			16094042	t	g
		231:	16094737	a	t
	45	232:		C	t t
	43	233:		c c	
		234: 235:			g a
		236:		g t	g
		237:		a	g
	50	238:		t	C
		239:		С	t
		240:		a	t
		241:	16274234	a	g
		242:		а	g
	55	243:		g	C
		244:		a	t
		245:		t	g
		246:		t	C
		247:	16389837	g	а

		249.	1630434	7 .	+		~
		248: 249:	1639434° 1639499		t a		c g
		250:	1640329	_	g		t
		251:	1640555		a		g
	5	252:	1642987	7 .	a		g
		253:	1643158		t		С
		254:	1643463	5 (a		g
		255:	1643777	8	g		t
	10	256:	1643999		C		g
		257:	1644709		t		C
		258:	1649152		a		g
		259:	1649473		t		g
	15	260:	1650124		a +		g
	13	261: 262:	1650814 1663622		t t		C C
		263:	1663679		C		a
		264:	1668696		C		t
		265:	1670542		С		t
	20	266:	1675330		a		t
		267:	1675796		a		g
		268:	1676633		C		t
ήI		269: 270:	1677902 1678477		a		t t
	25	270:	1680365		c c		g
	23	272:	1680476		g		t
. = 1		273:	1685398		Č		t
		274:	1685848	6	a		t
	••	275:	1686184		С		t
	30	276:	1686508		a		С
		277:	1686685		C		g
		278: 279:	1687652 1688344		t c		c t
14		280:	1696869		t		c
	35	281:	1697192		a		g
u		282:	1702110		g		а
		283:	1703154		t		С
		284:	1706099		t		C
	40	285: 286:	1706471 1706494		c a		t g
	40	287:	1707448		C		t
		288:			C		t
		289:	1711309		a		g
	4.5	290:	1711655		a		С
	45	291:	1712002		a		g
		292:	1713119		t		C
		293: 294:	1715391 1716738		a t		g C
		295:	1717053		g		C
	50	296:	1717969		a		t
		297:	1719363		g		а
		298:	1719952		a	-	t
		299:	1720102		t		a
	55	300: 301:	1720764 1722887		C		t
	55	301:	1723278		g a		a g
		303:	1723333		g		a
		304:	1723835		a		g
		305:	1723912	25	g		а

	5	307: 308: 309: 310: 311: 312: 313: 314: 315: 316:	17243006 17244215 17244585 17245498 17249409 17258945 17259285 17262233 17265233 17267396 17276911 17283143 17287690	C 9 9 9 C 9 a 9 9 a 9 9 a	t c a c t a g t a t a a t
	15	319: 320: 321:	17296703 17316277 17322467	g g a	c a c
	20	322: 323: 324: 325: 326:	17345540 17351785 17381722 17437280 17467870	g a g t	t c a c c
	25	328: 329: 330:	17468444 17490372 17548337 17615441 17627574	а 9 9 а	g a t c
	30		17635725 17645927 17646932 17683823 17711750	a a t c	а с с
Hand Hand Hand	35	337: 338: 339:	17776065 17779015 17819480 17820025 17887100	a a a t	д д д а
	40	342: 343:	18003363	a t a g a	r c g c g
	45	347: 348: 349: 350: 351:	18006481 18015976 18016117 18018984 18022010	a t g t t	t c a g c
	50	352: 353: 354: 355: 356:	18023585 18023870 18025742 18075838 18134065	с д д с	t a c c t
	55	357: 358: 359: 360: 361:	18151118 18156425 18166871 18167968 18170580	g a g a c	a t c g t Table 3

			POSITION	DEFEDENCE DACE	או מסטאאמס ארס
		1:	13793202	REFERENCE_BASE c	ALTERNATE_BASE t
		2:	13795971	g	a
	5	3:	13807082	a	C
		4:	13807169	t	C
		5:	13807650	t	С
		6:		С	t
	10	7:	13809703	С	t
	10	8:	13812148	С	t
		9:	13833651	С	t
		10:	13840293	C	a
		11: 12:	13851092 13858215	C ~	t
	15	13:	13860247	g c	a t
	13	14:	13861613	a	g
		15:	13862837	C	t
		16:	13868013	c	a
		17:	13868860	a	g
in i	20	18:	13869319	a	g
		19:	13899997	С	a
eje ez z		20:	13901998	С	g
111		21:	13918642	t	C
Į.	25	22:	13918743	g	a
	25	23:	13925431	t	g
		24:	13939753	a	t
æ		25: 26:	13954707 13968279	a t	g c
		27:	13989194	t	c
	30	28:	13994402	a	g
7		29:	14027813	t	C
100 E		30:	14028654	a	g
		31:	14029967	a	C
Series i		32:	14031277	g	a
I L	35	33:	14032871	g	C
		34:	14034217	g	a
		35:	14034364	t	C
		36:		C	t
	40	37: 38:	14051729 14052410	t t	C C
	τυ	39:		a	g
		40:	14062927	C	t
		41:	14065683	a	C
		42:	14068709	a	C
	45	43:	14079109	a	g
		44:		a	C
		45:		a	g
		46:		a	g
	50	47:	14109422	g	a
	50	48:	14122001	a	C
		49: 50:	14141359 14142005	a t	C ~
		51:		a	g g
		52:		a	t
	55	53:	14201941	t	g
		54:		C	t
		55:	14203930	a	g
		56:	14204116	t	C

	5	57: 58: 59: 60: 61: 62:	14218571 14224397 14228263 14235135 14241206 14244972	a t g c c	t c c t t a
	10	63: 64: 65: 66:	14249399 14251146 14251892 14253621 14254529	a g t a t	g c c t a
	15	68: 69: 70: 71: 72:	14277524 14279513 14289715 14290282 14290530	a t t a g	g a a g t
	20	73: 74: 75: 76: 77:	14294997 14295769 14295939 14297189 14299671	t c a t a	c t g c g
	25	78: 79: 80: 81: 82:	14299674 14299711 14300125 14304391 14304642	c t c a t	t c t g c
The state of the s	30	83: 84: 85: 86: 87:	14307883 14308299 14308460 14310283 14312072	t a g c a	c g a t g
The state of the s	35	88: 89: 90: 91: 92:	14315594 14325463 14325687 14336793 14351418	t g g	c g t a a
	40	93: 94: 95: 96: 97:	14351691 14352181 14354527 14355445 14361735	д С С Э	c t c g a
	45	98: 99: 100: 101: 102: 103:	14362906 14377173 14379074 14379466 14392496 14392568	t t a c t g	ccctca
	50	104: 105: 106: 107: 108:	14395584 14396231 14412774 14424801 14427417	9 a c a t t	3 0 1 9 0 0
	55	109: 110: 111: 112: 113: 114:	14427482 14440576 14442675 14442719 14444533 14446001	g c t t a a	0 0 0 0

	5	115: 116: 117: 118: 119: 120:	14448003 14449153 14454279 14459068 14464047 14464959	c t c a	a t g t t	;
	10	121: 122: 123: 124: 125: 126:	14465766 14475385 14500484 14514847 14520160 14525178	t c a	t t t	
	15	127: 128: 129: 130:	14529211 14532728 14536062	t a	t	2
	20	131: 132: 133: 134: 135:	14541497 14544386 14581049 14583783 14584821 14605448	ttccc	g c c c c c c	
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	30	141: 142: 143: 144: 145: 146:	14631799 14632590 14641424 14644530 14645138	t t t a a c	c t t	
	35	147: 148: 149: 150: 151:	14646515 14671181 14672513 14673701 14676902 14704141	a t t	t g c t	
	40	152: 153: 154: 155: 156:	14708401 14759724 14775795 14778736 14801146	t c g	g c a a t	e a a
	45	157: 158: 159: 160: 161:	14834449 14836432 14840248 14841901 14842227	g t	<u>.</u> a c a	a :
	50	162: 163: 164: 165: 166:	14842776 14843263 14886799 14887060 14890588	c a t	t g c	1
	55	167: 168: 169: 170: 171:	14892192 14893868 14900711 14901291 14903115	c a t t c	t 9 9 8	
		172:	14916672	: t	C	3

	5	173: 174: 175: 176: 177: 178: 179:	14920503 14925694 14930044 14930395 14931113 14932380 14937142	t t g a a c c	a c c c g g t
	10	180: 181: 182: 183: 184:	14938871 14940266 14945976 14947005 14949091	a t c t a	g c t c g
	15	185: 186: 187: 188: 189: 190:	14952249 14955951 14957355 14957571 14958320 14967763	а 9 с с с а	c a t t t c
	20	191: 192: 193:	14968075 14968622 14974256	t t a	a C C
The last that the sail of the fact that the	25	194: 195: 196: 197: 198:	15000979 15002808 15002869 15003459 15004691	a t c g c	g t a a
	30	199: 200: 201: 202:	15014070 15018850 15020436 15020440	t g g a	c a a g
the state of the s	35	203: 204: 205: 206: 207: 208:	15056327 15064728 15073139 15078999 15083283 15115316	t g t a c	с а с с g g
	40	209: 210: 211: 212: 213:	15115423 15120676 15123388 15130427 15137817	c g t a	a t a a c
	45	214: 215: 216: 217: 218: 219:	15143098 15143140 15159625 15160203 15167150 15174684	C C a C a t	tagtga
	50	220: 221: 222: 223:	15183225 15183636 15224071 15280085	c a t t	t t c c
	55	224: 225: 226: 227: 228: 229: 230:	15281410 15302421 15328920 15328921 15329117 15336885 15340434	c a a g t t	tcctaac

		231:	15341050	С	t
		232:	15343408	g	С
		233:	15349577	g	a
		234:	15358854	ť	С
	5	235:	15359010	C	t
		236:	15360371	g	a
		237:	15360415	a	C
		238:	15362712	a	t
		239:	15369500	c	t
	10	240:	15377503	t	c
	10	241:	15377303	a	
		242:	15381505	t	g
		243:	15395614		C
		244:	15418140	c t	g
	15	245:	15427052		C ~
	15		15427032	a ~	ā
		246: 247:		g	t
			15440219	a	g
		248:	15450658	a	g
	20	249:	15469944	t	а
	20	250:	15497208	t	а
		251:	15529113	a	g
اندط ندي		252:	15531290	g	t
		253:	15536720	a	g
IJ	05	254:	15555005	a	C
	25				
L.L		255:	15594759	C	t
F		256:	15599617	С	t
		257:	15601332	a	g
Ē	20	258:	15603328	С	g
	30	259:	15605767	a	g
al.		260:	15642143	а	g
		261:	15644736	t	a
e i		262:	15648823	С	t
~4 =====		263:	15650129	С	t
	35	264:	15653803	g	С
Ų		265:	15656922	С	g
		266:	15663671	С	a
		267:	15675577	t	a
		268:	15675976	t	С
	40	269:	15676508	C	t
		270:	15676597	C	t
		271:	15681214	t	a
		272:	15682739	t	g
		273:	15682925	C	t
	45	274:	15684253	t	g
		275:	15687054	g	а
		276:	15688596	t	С
		277:	15689303	а	g
		278:	15692480	g	а
	50	279:	15693924	C	а
		280:	15695029	g	t
		281:	15707183	t	C
		282:	15714285	t	С
		283:	15714774	g	а
	55	284:	15716047	a	С
		285:	15718727	t	C
		286:	15718927	g	a
		287:	15721987	a	g
		288:	15740761	c	t

		000	1554656		_
		289:	15742761	C ~	t ?
		290: 291:	15743816 15751207	g a	a g
		292:	15751246	a	t
	5	293:	15751359	C	t
		294:	15754104	t	С
		295:	15760186	C	t
		296:	15769673	a	g
	10	297:	15815282	C	t
	10	298: 299:	15817939 15833254	c g	a
		300:	15835481	C	a g
		301:	15851711	C	t
		302:	15852041	С	g
	15	303:	15853469	g	C
		304:	15853824	a	g
		305:	15869264	t	С
		306:	15869845	t	a ~
	20	307: 308:	15870773 15872349	a C	g
with the family the state of	20	309:	15896141	t	g c
		310:	15925924	t	C
		311:	16029732	t	C
ñ		312:	16030763	С	t
ñ	25	313:	16033046	g	а
<u></u>		314:	16044815	g	t
. II		315:	16059769	C	t ~
		316: 317:	16060265 16063918	C	g t
= ===	30	318:	16064730	g	a
By Tank of the map of the first		0.20		5	
-		319:	16073916	g	а
		320:	16074294	t	C
	25	321:	16074744	a	ā
	35	322: 323:	16093631 16100689	c t	t
IJ		324:	16107592	t	g
		325:	16124106	a	g
		326:	16131138	t	c
	40	327:	16131244	C	а
		328:	16134155	a	g
		329:		C	t
		330: 331:	16139214 16140602	g a	a
	45	332:	16140671	g	g t
	15	333:	16140703	t	g
		334:	16163942	g	t
		335:	16167455	g	a
	70	336:	16172690	t	a
	50	337:	16184901	С	t
		338:	16185389	a	g
		339: 340:	16187994 16293656	a g	g C
		341:	16305378	a a	g
	55	342:	16313571	a	g
		343:	16336578	g	ā
		344:	16360879	C	g
		345:	16423969	a	t
		346:	16423970	a	t

	347:	16423976	С		g
					C
	349:	16448336	c		g
	350:	16452007	a		c
5	351:	16453773	а		С
			C		t
			t		g
			C		t
10			t		C
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30					c
	377:	16799064	С		t
	378:	16799466	g		a
	379:	16804904	C		t
	380:	16807655	С		t
35	381:	16808954	a		g
	382:	16812750	a		g
			t		а
40			a		t
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		405:	17129588	а	С
		406:	17131642	g	a
		407:	17164499	a	g
	_	408:	17165382	t	g
	5	409:	17167672	а	g
		410:	17174469	a	t
		411: 412:	17178186 17180133	a	g a
		413:	17182569	g t	C
	10	414:	17186173	t	C
		415:	17187712	g	а
		416:	17193070	С	t
		417: 418:	17193084 17194501	g	a +
	15	419:	17209631	c a	t t
		420:	17219055	a	c
		421:	17220289	g	а
		422:	17238397	a	g
11	20	423: 424:	17244984 17248128	t	C
	20	424:	17257839	g C	a t
		426:	17262723	c	g
		427:	17278114	t	c
Ň	25	428:	17281188	С	t
	25	429:	17290111	g	a
1		430: 431:	17316238 17333820	t t	C
The same control of the sa		432:	17335050	t	a
		433:	17343694	g	a
	30	434:	17367747	t	C
		435: 436:	17369809 17370858	C ~	t
		437:	17370030	g t	a C
4		438:	17373879	a	g
	35	439:	17375880	g	С
TÜ		440:	17379865	t	С
		441: 442:	17384067 17393351	t t	g a
		443:	17394036	a	g
	40	444:	17396356	g	a
		445:	17397743	g	а
		446:	17398741	a	g
		447:	17402470	С	t
	45	448:	17412963	a	g
		449:	17437115	a	g
		450:	17473474	C	t
		451: 452:	17475236 17480553	t C	c t
	50	453:	17486157	t	C
		454:	17501700	t	g
		455:	17528110	t	С
		456:	17547768	g	a
	55	457: 458:	17550231 17553702	a g	g
	55	459:	17570023	C	t
		460:	17571585	t	a
		461:	17580847	g	C
		462:	17614190	С	t

			22058	t	С
			25750	С	t
			34579	a	g
	_		39494	C	g
	5		44090	С	t
			547361	C	t
			550880	t	g
			551536	a ~	g t
	10		560174 560498	g c	g
	10		63768	g	a
			567391	C	t
			68368	t	c
			68835	t	c
	15		593107	a	g
			594468	a	t
			760514	g	t
			761607	g	C
ol de la constante de la const			771810	g	а
	20		773264	a	g
			794236	t	С
1000			794806	t	а
711			301640	g	а
	2.5		310038	C	t
fortur E. r.	25		823360	a	С
Part.			875449	t	C
			900831	C	t
≅			902205 903237	t	a t
	30		910169	C C	t
į.	50		970301	t	C
			001282	t	g
from the first time will be			009431	a	g
7			009678	a	ť
P1 1	35		011006	t	С
i ij			011472	C	t
			012518	a	g
			016807	а	g
			017043	a	С
	40		018684	t	С
			020417	t	a
			021881	a	t
			024253	C	a
	45		025474 030960	g	a t
	43		030960	C C	t
			067382	g	a
			072464	C	t
			073416	a	g
	50		078999	C	t
			098017	g	t
			101558	ā	g
			102008	а	C
		516: 18	158420	g	a
	55				
	-				

It is to be understood that the above description is illustrative and not restrictive. The scope of the invention should, therefore, be determined not with respect to the above description, but instead with respect to the appended claims, along with the full scope of equivalents to which the claims are entitled.